Canon

EOS REBEL SL1

EOS 100D



Basic Instruction Manual

This basic manual covers only the most basic operations.
For other features and more details, see the
Camera Instruction Manual pdf file in the CD-ROM.

E

Introduction

The EOS REBEL SL1/EOS 100D is a high-performance, digital single-lens reflex camera featuring a fine-detail CMOS sensor with approx. 18.0 effective megapixels, DIGIC 5, high-precision and high-speed 9-point AF, approx. 4 fps continuous shooting, Live View shooting, and Full High-Definition (Full HD) movie shooting.
The camera is highly responsive to any shooting situation, and provides many features for demanding shots.

Refer to This Manual while Using the Camera to Further Familiarize Yourself with the Camera

With a digital camera, you can immediately view the image you have captured. While reading this manual, take a few test shots and see how they come out. You can then better understand the camera.
To avoid botched pictures and accidents, first read the “Safety Warnings” (p.110-112) and “Handling Precautions” (p.12, 13).

Testing the Camera Before Use and Liability

After shooting, play images back and check whether they have been properly recorded. If the camera or memory card is faulty and the images cannot be recorded or downloaded to a computer, Canon cannot be held liable for any loss or inconvenience caused.

Copyrights

Copyright laws in your country may prohibit the use of your recorded images or copyrighted music and images with music in the memory card for anything other than private enjoyment. Also be aware that certain public performances, exhibitions, etc., may prohibit photography even for private enjoyment.

Compatible Cards

The camera can use the following cards regardless of capacity:
- SD memory cards
- SDHC memory cards*
- SDXC memory cards*

* UHS-I cards supported.

Cards that Can Record Movies

When shooting movies, use a large-capacity SD card rated SD Speed Class 6 "CLASS 6" or higher.

- If you use a slow-writing card when shooting movies, the movie may not be recorded properly. Also, if you play back a movie on a card with a slow reading speed, the movie may not play back properly.
- If you want to shoot still photos while shooting a movie, you will need an even faster card.
- To check the card's reading/writing speed, refer to the card manufacturer's Web site.

In this manual, "card" refers to SD memory cards, SDHC memory cards, and SDXC memory cards.

* **The camera does not come with a card for recording images/movies.** Please purchase it separately.

Item Check List

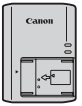
Before starting, check that all the following items have been included with your camera. If anything is missing, contact your dealer.



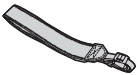
Camera
(with eyecup and body cap)



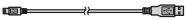
Battery Pack
LP-E12
(with protective cover)



Battery Charger
LC-E12/LC-E12E*



Wide Strap
EW-300D



Interface Cable

* Battery Charger LC-E12 or LC-E12E is provided. (The LC-E12E comes with a power cord.)

- The Instruction Manuals and CD-ROMs provided are listed on the next page.
- If you purchased a Lens Kit, check that the lenses are included.
- Depending on the Lens Kit type, lens instruction manuals may also be included.
- Be careful not to lose any of the above items.

Instruction Manual and CD-ROMs

The instruction manual consists of a booklet and PDF manuals in electronic form (provided in the CD-ROM disc).



Camera Basic Instruction Manual
(this booklet)

The Basic Instruction Manual explains the basic procedures and features. For detailed instructions, see the Camera Instruction Manual CD-ROM.



Camera Instruction Manual CD-ROM
Contains the following manuals in PDF:
- Camera Instruction Manual (Detailed version)
- Quick Reference Guide



Software Instruction Manual CD-ROM
Contains instruction manuals in PDF for the software in the Software CD-ROM.

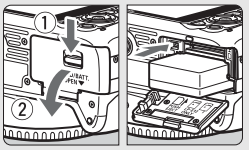
* Instructions for viewing the Instruction Manual CD-ROMs are on pages 102-103.



Software CD-ROM (EOS DIGITAL Solution Disk)
Contains various software. For outlines and installation procedure of the software, see pages 106-107.

Quick Start Guide

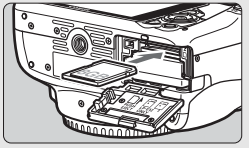
1



Insert the battery (p.24)**.**

- To charge the battery, see page 22.

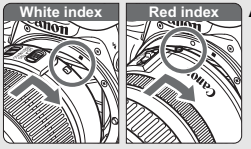
2



Insert a card (p.24)**.**

- With the card's label facing toward the back of the camera, insert it into the card slot.

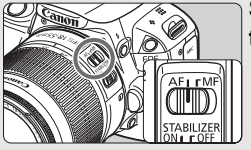
3



Attach the lens (p.32)**.**

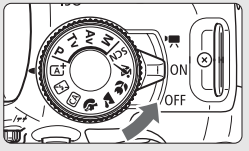
- Align the lens' white or red index with the camera's index in the matching color.

4



Set the lens focus mode switch to <AF> (p.32)**.**

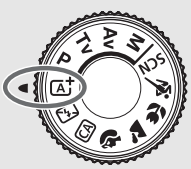
5



Set the power switch to <ON> (p.27)**.**

- When the LCD monitor displays the date/time/zone setting screens, see page 29.

6



Set the Mode Dial to <A+> (Scene Intelligent Auto) (p.48)**.**

- All the necessary camera settings will be set automatically.

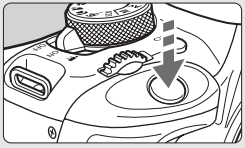
7



Focus the subject (p.35)**.**

- Look through the viewfinder and aim the viewfinder center over the subject.
- Press the shutter button halfway, and the camera will focus the subject.
- If necessary, the built-in flash will be raised automatically.

8



Take the picture (p.35)**.**

- Press the shutter button completely to take the picture.

9



Review the picture.

- The captured image will be displayed for 2 sec. on the LCD monitor.
- To display the image again, press the <▶> button (p.94).

- To shoot while looking at the LCD monitor, see “Live View Shooting” (p.73).
- To view the images captured so far, see “Image Playback” (p.94).

Conventions Used in this Manual

Icons in this Manual

<☼>	: Indicates the Main Dial.
<▲><▼><◄><►>	: Indicates the <✣> cross keys.
<SET>	: Indicates the Setting button.
⏱4, ⏱6, ⏱10, ⏱16	: Indicates that the corresponding function remains active for 4 sec., 6 sec., 10 sec., or 16 sec. respectively after you let go of the button.

* In this manual, the icons and markings indicating the camera's buttons, dials, and settings correspond to the icons and markings on the camera and on the LCD monitor.

MENU	: Indicates a function that can be changed by pressing the <MENU> button and changing the setting.
☆	: When shown on the upper right of a page, it indicates that the function is available only in the Creative Zone modes (p.18).
(p.**)	: Reference page numbers for more information.
	: Warning to prevent shooting problems.
	: Supplemental information.
	: Tips or advice for better shooting.
?	: Problem-solving advice.

Basic Assumptions

- All operations explained in this manual assume that the power switch is <ON> (p.27).
- It is assumed that all the menu settings and Custom Functions are set to their defaults.
- The illustrations in this manual show the camera attached with the EF-S18-55mm f/3.5-5.6 IS II lens as an example.

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Certification Logo

Under the [**4**] tab, if you select [**Certification Logo Display**] and press <SET>, some of the logos of the camera's certifications will appear. Other certification logos can be found in this Instruction Manual, on the camera body, and on the camera's package.

Handling Precautions

Camera Care

- This camera is a precision instrument. Do not drop it or subject it to physical shock.
- The camera is not waterproof and cannot be used underwater. If you accidentally drop the camera into water, promptly consult the nearest Canon Service Center. Wipe off any water droplets with a dry and clean cloth. If the camera has been exposed to salty air, wipe it with a well-wrung wet cloth.
- Never leave the camera near anything having a strong magnetic field such as a magnet or electric motor. Also avoid using or leaving the camera near anything emitting strong radio waves, such as a large antenna. Strong magnetic fields can cause camera misoperation or destroy image data.
- Do not leave the camera in excessive heat, such as in a car in direct sunlight. High temperatures can cause the camera to malfunction.
- The camera contains precision electronic circuitry. Never attempt to disassemble the camera yourself.
- Do not block the mirror operation with your finger, etc. Doing so may cause a malfunction.
- Use a blower to blow away dust on the lens, viewfinder, reflex mirror, and focusing screen. Do not use cleaners that contain organic solvents to clean the camera body or lens. For stubborn dirt, take the camera to the nearest Canon Service Center.
- Do not touch the camera's electrical contacts with your fingers. This is to prevent the contacts from corroding. Corroded contacts can cause camera misoperation.
- If the camera is suddenly brought in from the cold into a warm room, condensation may form on the camera and internal parts. To prevent condensation, first put the camera in a sealed plastic bag and let it adjust to the warmer temperature before taking it out of the bag.
- If condensation forms on the camera, do not use the camera. This is to avoid damaging the camera. If there is condensation, remove the lens, card and battery from the camera, and wait until condensation has evaporated before using the camera.
- If the camera will not be used for an extended period, remove the battery and store the camera in a cool, dry, well-ventilated location. Even while the camera is in storage, press the shutter button a few times once in a while to check that the camera is still working.
- Avoid storing the camera where there are chemicals that result in rust and corrosion such as in a chemical lab.
- If the camera has not been used for an extended period, test all its functions before using it. If you have not used the camera for some time or if there is an important shoot such as a foreign trip coming up, have the camera checked by your Canon dealer or check the camera yourself and make sure it is working properly.

LCD Monitor

- Although the LCD monitor is manufactured with very high precision technology with over 99.99% effective pixels, there may be a few dead pixels displaying only black or red, etc. among the remaining 0.01% or less pixels. Dead pixels are not a malfunction. They do not affect the images recorded.
- If the LCD monitor is left on for a prolonged period, screen burn-in may occur where you see remnants of what was displayed. However, this is only temporary and will disappear when the camera is left unused for a few days.
- The LCD monitor display may seem slow in low temperatures, or look black in high temperatures. It will return to normal at room temperature.

Cards

To protect the card and its recorded data, note the following:

- Do not drop, bend, or wet the card. Do not subject it to excessive force, physical shock, or vibration.
- Do not touch the card's electronic contacts with your fingers or anything metallic.
- Do not affix any stickers, etc., on the card.
- Do not store or use the card near anything having a strong magnetic field, such as a TV set, speakers, or magnet. Also avoid places prone to having static electricity.
- Do not leave the card in direct sunlight or near a heat source.
- Store the card in a case.
- Do not store the card in hot, dusty, or humid locations.

Lens

After detaching the lens from the camera, put down the lens with the rear end up and attach the lens caps to avoid scratching the lens surface and electrical contacts.



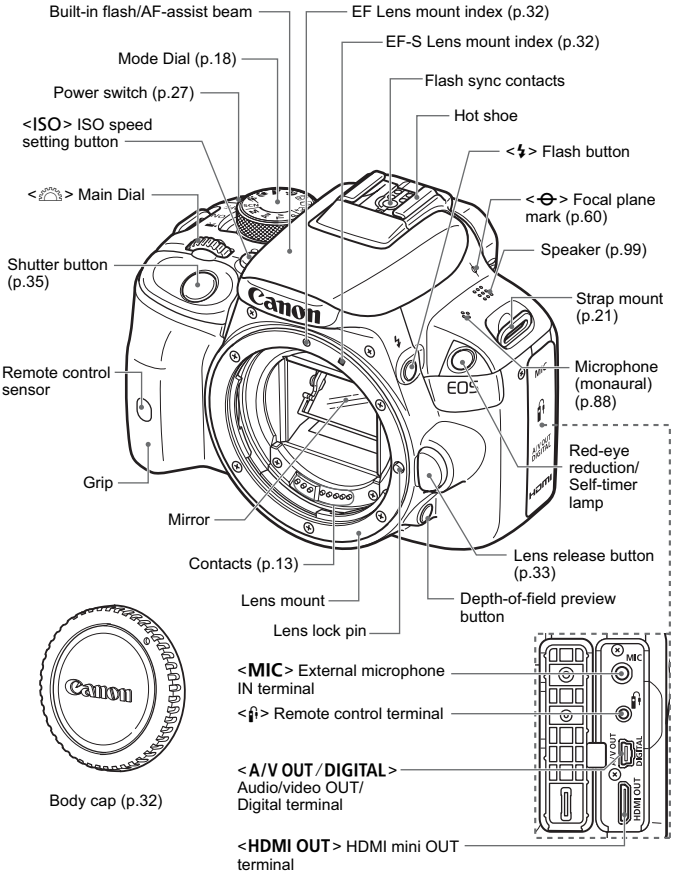
Cautions regarding Prolonged Use

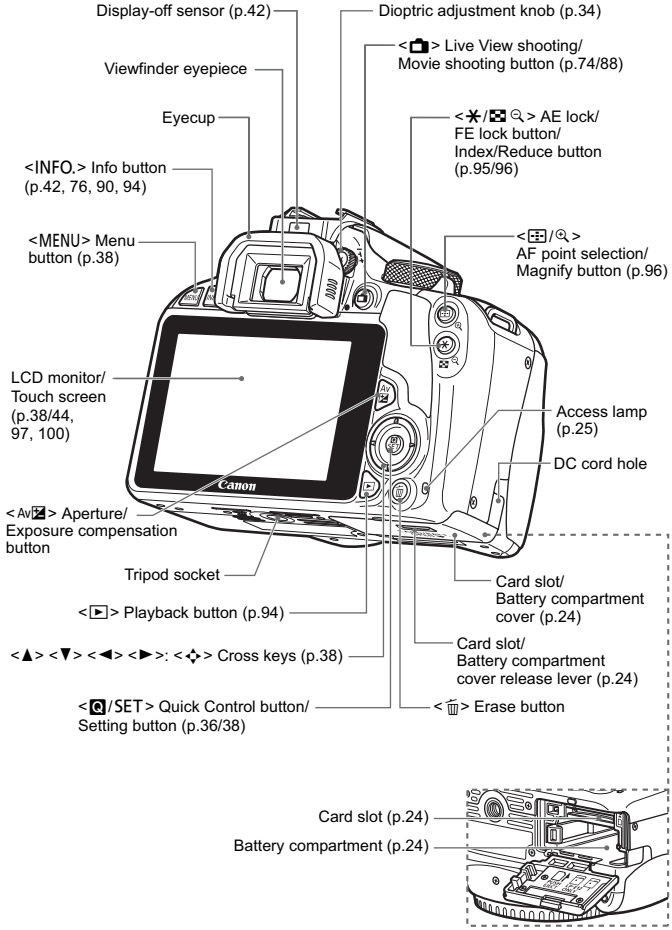
If you use continuous shooting, Live View shooting, or movie shooting for a prolonged period, the camera may become hot. This is not a malfunction.

Smudges Adhering to the Front of the Sensor

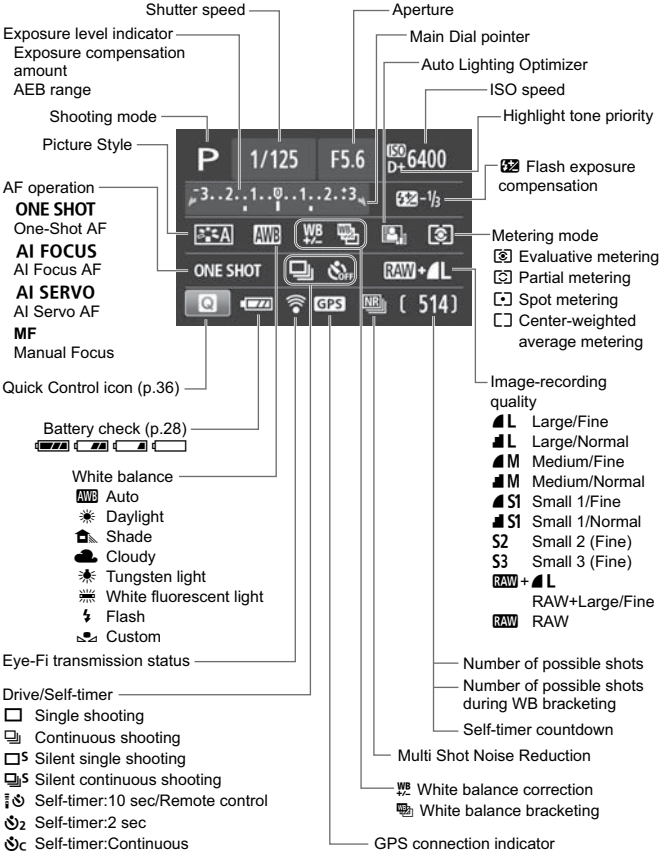
Besides dust entering the camera from outside, in rare cases lubricant from the camera's internal parts may adhere to the front of the sensor. If visible spots still remain after the automatic sensor cleaning, having the sensor cleaned by a Canon Service Center is recommended.

Nomenclature



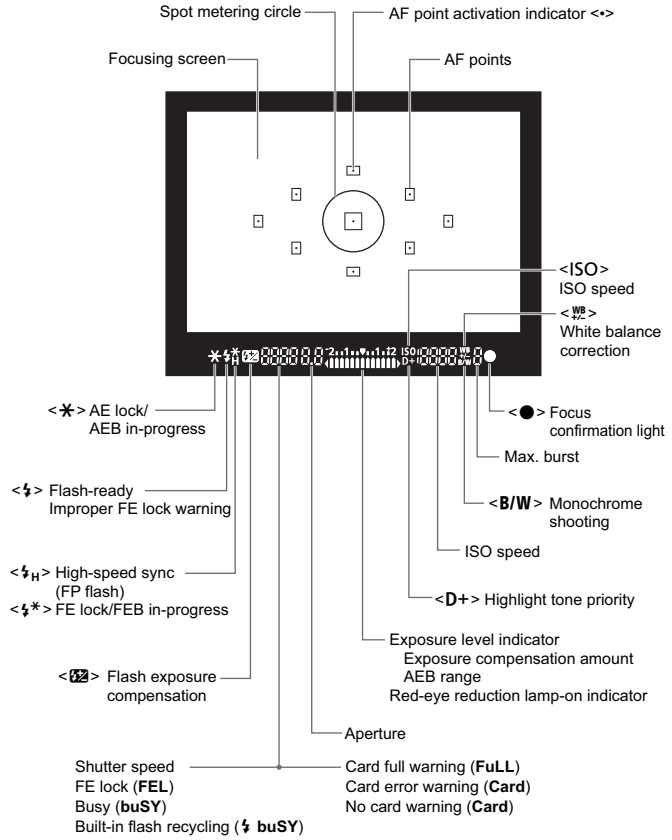

Display-off sensor (p.42)
Dioptric adjustment knob (p.34)
<> Live View shooting/ Movie shooting button (p.74/88)
Viewfinder eyepiece
Eyecup
<> AE lock/ FE lock button/ Index/Reduce button (p.95/96)
<INFO.> Info button (p.42, 76, 90, 94)
<MENU> Menu button (p.38)
<> AF point selection/ Magnify button (p.96)
LCD monitor/ Touch screen (p.38/44, 97, 100)
Access lamp (p.25)
DC cord hole
<> Aperture/ Exposure compensation button
Tripod socket
<> Playback button (p.94)
Card slot/ Battery compartment cover (p.24)
<> <> <> <>: <> Cross keys (p.38)
Card slot/ Battery compartment cover release lever (p.24)
<> Quick Control button/ Setting button (p.36/38)
<> Erase button
Card slot (p.24)
Battery compartment (p.24)

Shooting Settings (in Creative Zone modes, p.18)



The display will show only the settings currently applied.

Viewfinder Information



The display will show only the settings currently applied.

Mode Dial

The Mode Dial includes the Basic Zone modes and Creative Zone modes.

Creative Zone

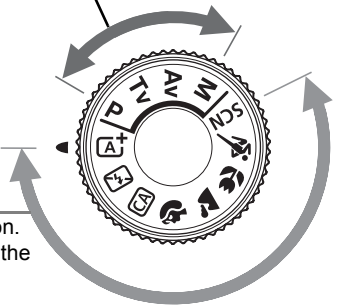
These modes give you more control for shooting various subjects.

P : Program AE

Tv : Shutter-priority AE

Av : Aperture-priority AE

M : Manual exposure



Basic Zone

All you do is press the shutter button. The camera sets everything to suit the subject or scene.

: **Scene Intelligent Auto** (p.48)

: **Flash Off** (p.53)

: **Creative Auto** (p.54)

: **Portrait** (p.58)

: **Landscape** (p.59)

: **Close-up** (p.60)

: **Sports** (p.61)

SCN : **Special scene** (p.62)

: Kids (p.63)

: Food (p.64)

: Candlelight (p.65)

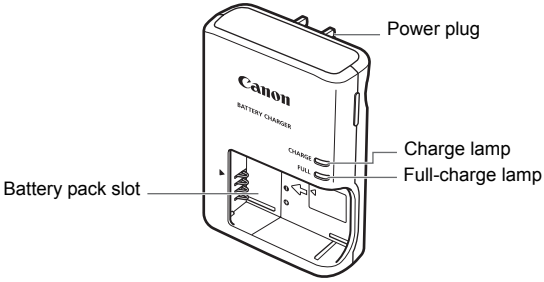
: Night Portrait (p.66)

: Handheld Night Scene (p.67)

: HDR Backlight Control (p.68)

Battery Charger LC-E12

Charger for Battery Pack LP-E12 (p.22).

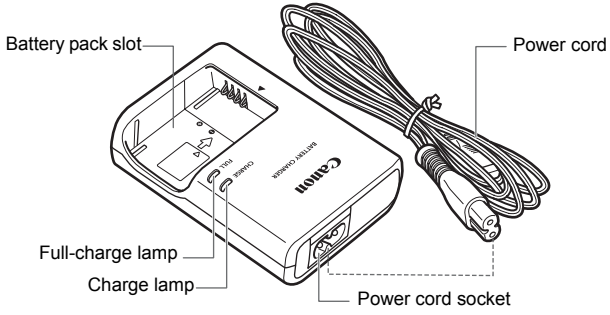


IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS. DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet, if needed.

Battery Charger LC-E12E

Charger for Battery Pack LP-E12 (p.22).

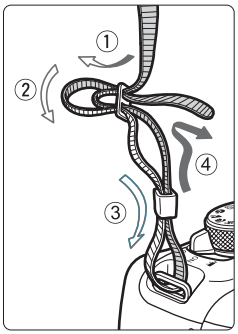




1

Getting Started

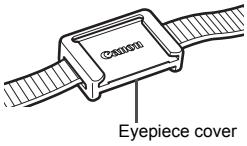
This chapter explains preparatory steps before you start shooting and basic camera operations.



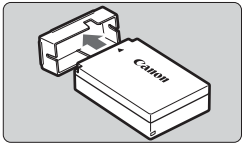
Attaching the Strap

Pass the end of the strap through the camera's strap mount eyelet from the bottom. Then pass it through the strap's buckle as shown in the illustration. Pull the strap to take up any slack and make sure the strap will not loosen from the buckle.

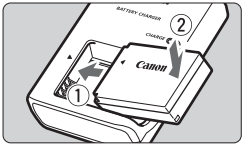
- The eyepiece cover is also attached to the strap.



Charging the Battery



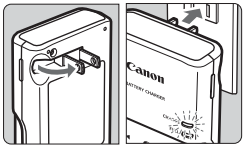
1 Remove the protective cover.



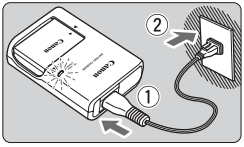
2 Attach the battery.

- As shown in the illustration, attach the battery securely to the charger.
- To detach the battery, follow the above procedure in reverse.

LC-E12



LC-E12E



3 Recharge the battery.

For LC-E12

- As shown by the arrow, flip out the battery charger's prongs and insert the prongs into a power outlet.

For LC-E12E

- Connect the power cord to the charger and insert the plug into a power outlet.

▶ Recharging starts automatically and the charge lamp lights up in orange.

▶ When the battery is fully recharged, the full-charge lamp will light up in green.

- **It takes approx. 2 hours to fully recharge a completely exhausted battery at room temperature (23°C / 73°F). The time required to recharge the battery will vary greatly depending on the ambient temperature and the battery's remaining capacity.**
- For safety reasons, recharging in low temperatures (5°C - 10°C / 41°F - 50°F) will take longer (up to approx. 4 hours).

Tips for Using the Battery and Charger

- **Upon purchase, the battery is not fully charged.**
 Charge the battery before use.
- **Recharge the battery on the day before or on the day it is to be used.**
 Even during storage, a charged battery will gradually drain and lose its capacity.
- **After recharging the battery, detach it and disconnect the charger from the power outlet.**
- **When not using the camera, remove the battery.**
 If the battery is left in the camera for a prolonged period, a small amount of power current is released, resulting in excess discharge and shorter battery life. Store the battery with the protective cover (provided) attached. Storing the battery when it is fully charged may lower the battery's performance.
- **The battery charger can also be used in foreign countries.**
 The battery charger is compatible with a 100 V AC to 240 V AC 50/60 Hz power source. If necessary, attach a commercially-available plug adapter for the respective country or region. Do not attach any portable voltage transformer to the battery charger. Doing so can damage the battery charger.
- **If the battery becomes exhausted quickly even after being fully charged, the battery has reached the end of its service life.**
 Purchase a new battery.

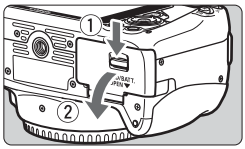
- After disconnecting the charger's power plug, do not touch the prongs for at least 3 sec.
- Do not charge any battery other than a Battery Pack LP-E12.
- Battery Pack LP-E12 is dedicated to Canon products only. Using it with an incompatible battery charger or product may result in malfunction or accidents for which Canon cannot be held liable.

Installing and Removing the Battery and Card

Load a fully charged Battery Pack LP-E12 into the camera. The camera can use an SD, SDHC, or SDXC memory card (sold separately). UHS-I Speed Class SDHC and SDXC memory cards can also be used. The captured images are recorded onto the card.

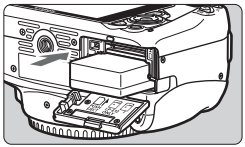
Make sure the card's write-protect switch is set upward to enable writing/erasing.

Installing the Card



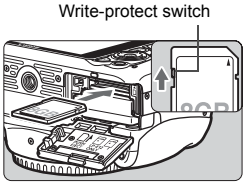
1 Open the cover.

- Slide the lever as shown by the arrows and open the cover.



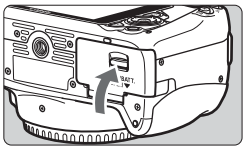
2 Insert the battery.

- Insert the end with the battery contacts.
- Insert the battery until it locks in place.



3 Insert the card.

- As shown by the illustration, face the card's label side toward the back of the camera and insert it until it clicks in place.



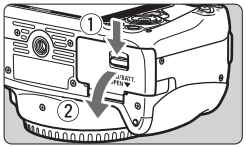
4 Close the cover.

- Press the cover until it snaps shut.
- When you set the power switch to <ON>, the number of possible shots (p.28) will be displayed on the LCD monitor.

After opening the card slot/battery compartment cover, be careful not to swing it back further. Otherwise, the hinge may break.

- The number of possible shots depends on the remaining capacity of the card, image-recording quality, ISO speed, etc.
- Setting [**1: Release shutter without card**] to [**Disable**] will prevent you from forgetting to insert a card.

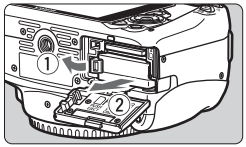
Removing the Card



1 Set the power switch to <OFF> (p.27)**.**

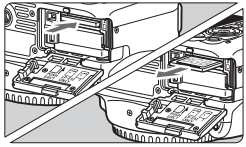
2 Open the cover.

- **Make sure the access lamp is off, then open the cover.**
- If [**Recording...**] is displayed, close the cover.



3 Remove the battery.

- Press the battery lock lever as shown by the arrow and remove the battery.
- To prevent short circuiting of the battery contacts, be sure to attach the provided protective cover (p.22) to the battery.



4 Remove the card.

- Gently push in the card, then let go to eject it.
- Pull the card straight out.

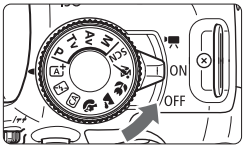
5 Close the cover.

- Press the cover until it snaps shut.

- **When the access lamp is lit or blinking, it indicates that images are being written to or read by the card, being erased, or data is being transferred. Do not open the card slot/battery compartment cover. Also, never do any of the following while the access lamp is lit or blinking. Otherwise, it can damage the image data, card, or camera.**
 - **Removing the card.**
 - **Removing the battery.**
 - **Shaking or banging the camera around.**
- If the card already contains recorded images, the image number may not start from 0001.
- If a card-related error message is displayed on the LCD monitor, remove and reinsert the card. If the error persists, use a different card.
 If you can transfer all the images on the card to a computer, transfer all the images and then format the card with the camera (p.40). The card may then return to normal.
- Do not touch the card's contacts with your fingers or metal objects.

Turning on the Power

If you turn on the power switch and the date/time/zone setting screen appears, see page 29 to set the date/time/zone.



<🎥> : The camera turns on. You can shoot movies (p.87).
<ON> : The camera turns on. You can shoot still photos.
<OFF> : The camera is turned off and does not operate. Set to this position when not using the camera.

Automatic Sensor Cleaning

- Whenever you set the power switch to <ON> or <OFF>, sensor cleaning will be executed automatically. (A small sound may be heard.) During the sensor cleaning, the LCD monitor will display <.
- You can still shoot during sensor cleaning by pressing the shutter button halfway (p.35) to stop the sensor cleaning and take a picture.
- If you repeatedly turn the power switch <ON>/<OFF> at a short interval, the < > icon may not be displayed. This is normal and not a malfunction.

MENU Auto Power Off

- To save battery power, the camera turns off automatically after approx. 30 seconds of non-operation. To turn on the camera again, just press the shutter button halfway (p.35).
- You can set the auto power off time with [**2: Auto power off**].

If you set the power switch to <OFF> while an image is being recorded to the card, [**Recording...**] will be displayed and the power will turn off after the card finishes recording the image.

Checking the Battery Level

When the power is turned on, the battery level will be indicated in one of four levels.



- : Battery level is sufficient.
- : Battery level is low, but the camera can still be used.
- : Battery will be exhausted soon. (Blinks)
- : Recharge the battery.

Number of Possible Shots [Approx. number of shots]

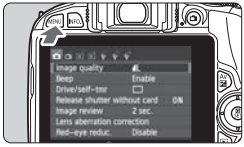
Temperature	Room Temperature (23°C / 73°F)	Low Temperatures (0°C / 32°F)
No Flash	480	420
50% Flash Use	380	350

- The figures above are based on a fully-charged Battery Pack LP-E12, no Live View shooting, and CIPA (Camera & Imaging Products Association) testing standards.

- The number of possible shots will decrease with any of the following operations:
 - Pressing the shutter button halfway for a prolonged period.
 - Activating the AF frequently without taking a picture.
 - Using the lens Image Stabilizer.
 - Using the LCD monitor often.
- The number of possible shots may decrease depending on the actual shooting conditions.
- The lens operation is powered by the camera's battery. Depending on the lens used, the number of possible shots may be lower.
- For the number of possible shots with Live View shooting, see page 75.

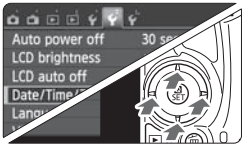
MENU Setting the Date, Time, and Zone

When you turn on the power for the first time or if the date/time/zone have been reset, the date/time/zone setting screen will appear. Follow the steps below to set the time zone first. If you set the camera to the correct time zone for where you currently live, when you travel to another time zone you can simply set the camera to the correct time zone for your destination to update the camera's date/time automatically.
Note that the date/time appended to recorded images will be based on this date/time setting. Be sure to set the correct date/time.



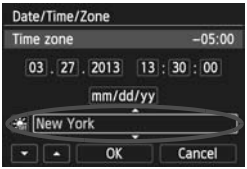
1 Display the menu screen.

- Press the <MENU> button to display the menu screen.



2 Under the [2] tab, select [Date/Time/Zone].

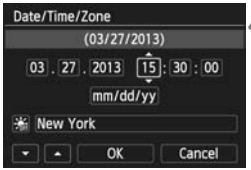
- Press the <◄> <►> keys to select the [2] tab.
- Press the <▲> <▼> keys to select [**Date/Time/Zone**], then press <SET>.



3 Set the time zone.

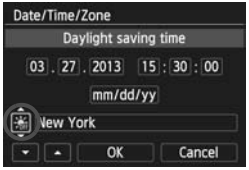
- **[London] is set by default.**
- Press the <◄> <►> keys to select the time zone box.
- Press <SET> so <⊕> is displayed.
- Press the <▲> <▼> keys to select the time zone, then press <SET>. (Returns to <□>.)

- The menu setting procedure is explained on pages 38-39.
- In step 3, the time displayed on the upper right of the screen is the time difference compared with Coordinated Universal Time (UTC). If you do not see your time zone, set the time zone while referring to the difference with UTC.



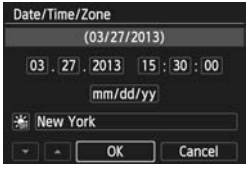
4 Set the date and time.

- Press the <◄> <►> keys to select the number.
- Press <SET> so <⌖> is displayed.
- Press the <▲> <▼> keys to set the number, then press <SET>. (Returns to <□>.)



5 Set the daylight saving time.

- Set it if necessary.
- Press the <◄> <►> keys to select [☀off].
- Press <SET> so <⌖> is displayed.
- Press the <▲> <▼> keys to select [☀], then press <SET>.
- When the daylight saving time is set to [☀], the time set in step 4 will advance by 1 hour. If [☀off] is set, the daylight saving time will be canceled and the time will go back by 1 hour.



6 Exit the setting.

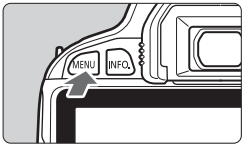
- Press the <◄> <►> keys to select [**OK**], then press <SET>.

▶ The date/time/zone and daylight saving time will be set and the menu will reappear.

If you store the camera without the battery or if the camera's battery becomes exhausted, the date/time/zone may be reset. If this happens, set the time zone and date/time again.

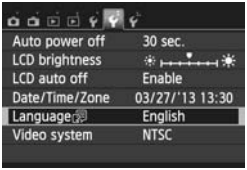
- The date/time that was set will start from when you press <SET> in step 6.
- After changing the time zone, check that the correct date/time has been set.

MENU Selecting the Interface Language



1 Display the menu screen.

- Press the <MENU> button to display the menu screen.



2 Under the [2] tab, select [Language].

- Press the <◄> <►> keys to select the [2] tab.
- Press the <▲> <▼> keys to select [**Language**], then press <SET>.





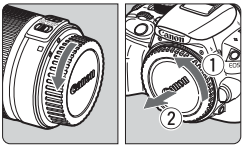
3 Set the desired language.

- Press the <✣> cross keys to select the language, then press <SET>.
- ▶ The interface language will change.

Attaching and Detaching a Lens

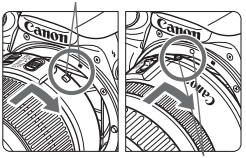
The camera is compatible with all Canon EF and EF-S lenses. **The camera cannot be used with EF-M lenses.**

Attaching a Lens



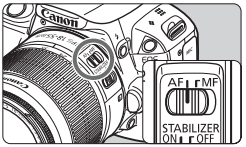
1 Remove the caps.

- Remove the rear lens cap and the body cap by turning them as shown by the arrows.



2 Attach the lens.

- Align the lens' red or white index with the camera's index matching the same color. Turn the lens as shown by the arrow until it clicks in place.



3 Set the lens focus mode switch to <AF>.

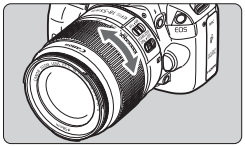
- <**AF**> stands for autofocus.
- If it is set to <**MF**> (manual focus), autofocus will not operate.

4 Remove the front lens cap.

Minimizing Dust

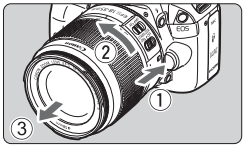
- When changing lenses, do it quickly in a place with minimal dust.
- When storing the camera without a lens attached, be sure to attach the body cap to the camera.
- Remove dust on the body cap before attaching it.

Zooming



To zoom, turn the zoom ring on the lens with your fingers.
If you want to zoom, do it before focusing. Turning the zoom ring after achieving focus may throw off the focus.

Detaching the Lens

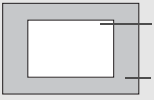


While pressing the lens release button, turn the lens as shown by the arrows.

- Turn the lens until it stops, then detach it.
- Attach the rear lens cap to the detached lens.

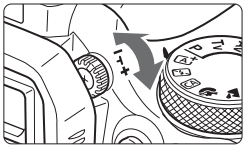
- Do not look at the sun directly through any lens. Doing so may cause loss of vision.
- When attaching or detaching a lens, set the camera's power switch to <OFF>.
- If the front part (focusing ring) of the lens rotates during autofocusing, do not touch the rotating part.
- If you use a TS-E lens, certain shift and rotation functions may be restricted, and attaching or detaching the lens may also be restricted.

Image Conversion Factor
Since the image sensor size is smaller than the 35mm film format, it will look like the lens focal length is increased by approx. 1.6x.



Basic Operation

Adjusting the Viewfinder Clarity



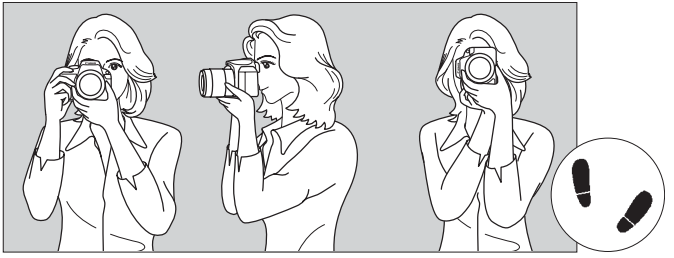
Turn the dioptric adjustment knob.

- Turn the knob left or right so that the AF points (nine boxes) in the viewfinder look sharp.

If the camera dioptric adjustment still cannot provide a sharp viewfinder image, using E-series Dioptric Adjustment Lenses (sold separately) is recommended.

Holding the Camera

To obtain sharp images, hold the camera still to minimize camera shake.



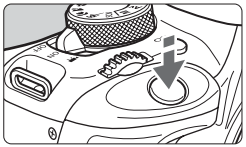
Horizontal shooting Vertical shooting

1. Wrap your right hand around the camera grip firmly.
2. Hold the lens bottom with your left hand.
3. Rest your hand's right index finger lightly on the shutter button.
4. Press your arms and elbows lightly against the front of your body.
5. To maintain a stable stance, place one foot slightly ahead of the other.
6. Press the camera against your face and look through the viewfinder.

To shoot while looking at the LCD monitor, see page 73.

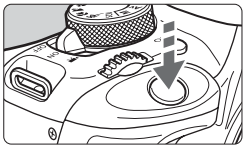
Shutter Button

The shutter button has two steps. You can press the shutter button halfway. Then you can further press the shutter button completely.



Pressing halfway

This activates autofocusing and the automatic exposure system that sets the shutter speed and aperture.
The exposure setting (shutter speed and aperture) is displayed in the viewfinder (⏱4).



Pressing completely

This releases the shutter and takes the picture.

Preventing Camera Shake

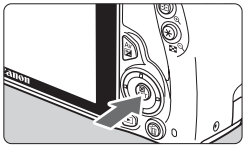
Hand-held camera movement during the moment of exposure is called camera shake. It can cause blurred pictures. To prevent camera shake, note the following:

- Hold and steady the camera as shown on the preceding page.
- Press the shutter button halfway to autofocus, then slowly press the shutter button completely.

- If you press the shutter button completely without pressing it halfway first, or if you press the shutter button halfway and then press it completely immediately, the camera will take a moment before it takes the picture.
- Even during menu display, image playback, or image recording, you can instantly go back to shooting-ready by pressing the shutter button halfway.

Q Quick Control for Shooting Functions

You can directly select and set the shooting functions displayed on the LCD monitor. This is called the Quick Control screen.



1 Press the <Q> button.

▶ The Quick Control screen will appear (⏱10).

2 Set the desired function.

- Press the <✣> cross keys to select a function.

▶ The selected function and Feature guide (p.43) will appear.

- Turn the <◯> dial to change the setting.

Basic Zone modes



Creative Zone modes



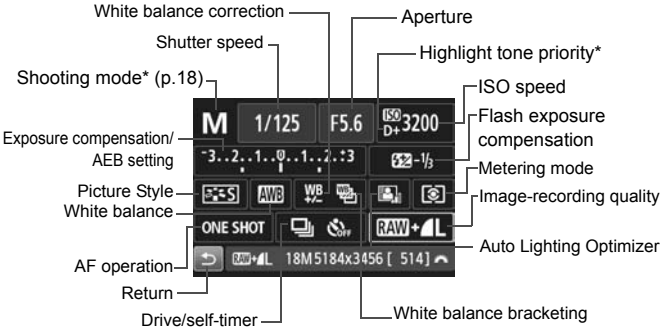
3 Take the picture.

- Press the shutter button completely to take the picture.

▶ The captured image will be displayed.

- For the functions settable in Basic Zone modes and the setting procedure, see page 70.
- In steps 1 and 2, you can also use the LCD monitor's touch screen (p.44).

Sample Quick Control Screen



* These functions cannot be set with the Quick Control screen.

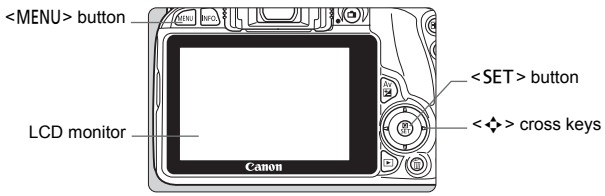
Function Setting Screen



- Select the desired function and press <SET>. The function's setting screen will appear.
- Press the <◄><►> keys or turn the <dial> dial to change some of the settings. Also, some functions can be set by pressing the <INFO.> button.
- Press <SET> to finalize the setting and return to the Quick Control screen.

MENU Menu Operations

You can set various settings with the menus such as the image-recording quality, date/time, etc. While looking at the LCD monitor, use the <MENU> button, <✣> cross keys, and <SET> button on the back of the camera to operate the menus.



Menu Screen

The menu tabs and items displayed will differ depending on the shooting mode.

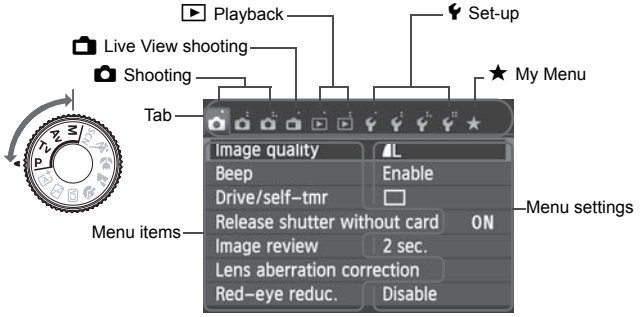
Basic Zone modes



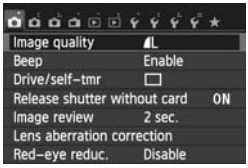
Movie shooting



Creative Zone modes



Menu Setting Procedure

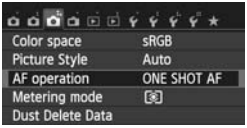


1 Display the menu screen.

- Press the <MENU> button to display the menu screen.

2 Select a tab.

- Press the <◄> <►> keys to select a tab (group of functions).
- For example, in this manual, "the [📷3] tab" refers to the screen displayed when the third 📷 (Shooting) tab from the left [📷*] is selected.



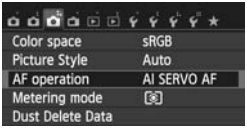
3 Select the desired item.

- Press the <▲> <▼> keys to select the option, then press <SET>.



4 Select the setting.

- Press the <▲> <▼> or <◄> <►> keys to select the desired setting. (Some settings require you to press either the <▲> <▼> or <◄> <►> keys to select it.)
- The current setting is indicated in blue.



5 Set the desired setting.

- Press <SET> to set it.

6 Exit the setting.

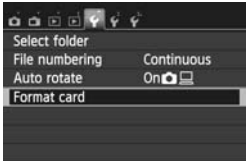
- Press the <MENU> button to return to the shooting function settings display.

- In step 2, you can also turn the <⚙> dial to select a menu tab.
- In steps 2 to 5, you can also use the LCD monitor's touch screen (p.44).
- The explanation of menu functions hereinafter assumes that you have pressed the <MENU> button to display the menu screen.
- To cancel, press the <MENU> button.

MENU Formatting the Card

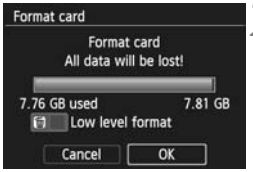
If the card is new or was previously formatted by another camera or computer, format the card with the camera.

When the card is formatted, all images and data in the card will be erased. Even protected images will be erased, so make sure there is nothing you need to keep. If necessary, transfer the images and data to a computer, etc., before formatting the card.



1 Select [Format card].

- Under the [**1**] tab, select [**Format card**], then press <SET>.



2 Format the card.

- Select [**OK**], then press <SET>.
- ▶ The card will be formatted.
- ▶ When the formatting is completed, the menu will reappear.



- For low-level formatting, press the <🗑> button to append [**Low level format**] with a checkmark <✓>, then select [**OK**].

Execute [Format card] in the following cases:

- **The card is new.**
- **The card was formatted by a different camera or a computer.**
- **The card is full with images or data.**
- **A card-related error is displayed.**

Low-level Formatting

- Perform low-level formatting if the card's recording or reading speed seems slow or if you want to totally erase data in the card.
- Since low-level formatting will format all recordable sectors in the card, the formatting will take slightly longer than normal formatting.
- You can stop the low-level formatting by selecting [**Cancel**]. Even in this case, normal formatting will be completed and you can use the card as usual.

- When the card is formatted or data is erased, only the file management information is changed. The actual data is not completely erased. Be aware of this when selling or discarding the card. When discarding the card, execute low-level formatting or destroy the card physically to prevent the personal data from being leaked.
- **Before using a new Eye-Fi card, the software in the card must be installed in your computer. Then format the card with the camera.**

- The card capacity displayed on the card format screen may be smaller than the capacity indicated on the card.
- This device incorporates exFAT technology licensed from Microsoft.

Switching the LCD Monitor Display

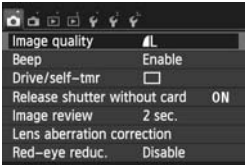
The LCD monitor can display the shooting settings screen, menu screen, captured images, etc.

Shooting Settings



- When you turn on the power, the shooting settings will be displayed.
- When your eye is near the viewfinder eyepiece, the display-off sensor (p.15) will turn off the LCD monitor to prevent glare. When your eye leaves the viewfinder eyepiece, the LCD monitor will turn on again.
- By pressing the <INFO.> button, you can switch the LCD monitor screen as follows: Display the shooting settings screen, turn off the LCD monitor screen, or display the camera settings screen.

Menu Functions



- Appears when you press the <MENU> button. Press the button again to return to the shooting settings screen.

Captured Image



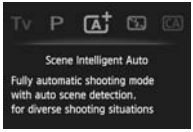
- Appears when you press the <▶> button. Press the button again to return to the shooting settings screen.

- With [**2: LCD auto off**], you can prevent the LCD monitor from turning off automatically.
- Even when the menu screen or captured image is displayed, pressing the shutter button will enable you to shoot immediately.

Feature Guide

The Feature guide appears when you change the shooting mode or set a shooting function, Live View shooting, movie shooting, or Quick Control for playback, and displays a brief description of that mode, function or option. It also displays a description when you select a function or option on the Quick Control screen. The Feature guide turns off when you tap the description or proceed with the operation.

- **Shooting mode** (Sample)





- **Quick Control** (Sample)



Shooting settings

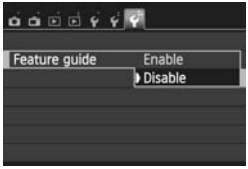


Live View shooting



Playback

MENU Disabling the Feature Guide



Select [Feature guide].

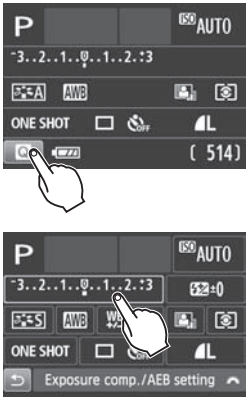
- Under the [3] tab, select [**Feature guide**], then press <SET>.
- Select [**Disable**], then press <SET>.

Using the Touch Screen

The LCD monitor is a touch-sensitive panel that you can operate with your fingers.

Tap

Quick Control (Sample display)



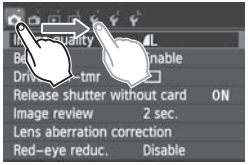
- Use your finger to tap (touch briefly and then remove your finger from) the LCD monitor.
- By tapping, you can select menus, icons, etc., displayed on the LCD monitor.
- When touch-screen operation is possible, a frame will appear around the icon (except on menu screens). For example, when you tap [Q], the Quick Control screen appears. By tapping [↩], you can return to the preceding screen.

Operations possible by tapping the screen

- Setting menu functions after pressing the <MENU> button
- Quick Control
- Setting functions after pressing the <ISO> or <⊞> button
- Setting functions during Live View shooting
- Setting functions during movie shooting
- Playback operations

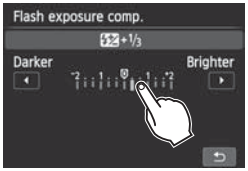
Drag

Menu screen (Sample display)



- Slide your finger while touching the LCD monitor.

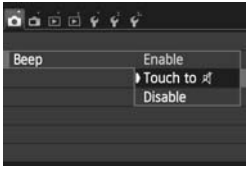
Scale display (Sample display)



Operations possible by dragging your finger on the screen

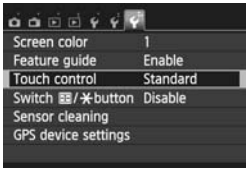
- Selecting a menu tab or item after pressing the <MENU> button
- Setting a scale control
- Quick Control
- Setting functions during Live View shooting
- Setting functions during movie shooting
- Playback operations

MENU Silencing the Beep during Touch Operations



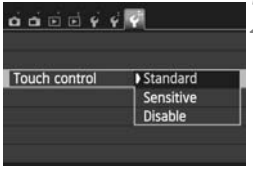
If [**1: Beep**] is set to [**Touch to**], the beep will not sound during touch operations.

MENU Setting the Touch Control



1 Select [Touch control].

- Under the [3] tab, select [**Touch control**], then press <SET>.



2 Set the Touch control.

- Select the desired setting, then press <SET>.
- [**Standard**] is the normal setting.
- [**Sensitive**] provides a better touch response than [**Standard**]. Try using both settings and select the one you prefer.
- To disable touch-screen operations, select [**Disable**].

Cautions for Touch Screen Operations

- Since the LCD monitor is not pressure sensitive, do not use any sharp objects, such as your fingernail or a ballpoint pen, for touch operations.
- Do not use wet fingers for touch screen operations.
- If the LCD monitor has any moisture or if your fingers are wet, the touch screen may not respond or misoperation may occur. In such a case, turn off the power and wipe the LCD monitor with a cloth.
- Do not attach any protective sheet (commercially available) or sticker on the LCD monitor. It may make the touch operation response slow.

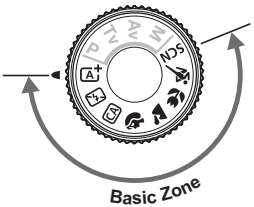
2

Basic Shooting

This chapter explains how to use the Basic Zone modes on the Mode Dial for best results.

With Basic Zone modes, all you do is point and shoot while the camera sets everything automatically (p.71). Also, to prevent botched pictures due to mistaken operations, advanced shooting function settings cannot be changed.





If you set the Mode Dial to <**SCN**> while the LCD monitor is off, press the <Q> button to check the shooting mode before shooting (p.62).

Fully Automatic Shooting (Scene Intelligent Auto)

<A+> is a fully automatic mode. The camera analyzes the scene and sets the optimum settings automatically. It also adjusts focus automatically by detecting whether the subject is still or moving (p.51).

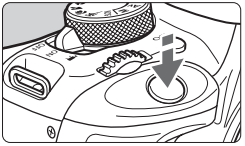


1 Set the Mode Dial to <A+>.



2 Aim any AF point over the subject.

- All the AF points will be used to focus, and generally the closest object will be focused.
- Aiming the center AF point over the subject will make focusing easier.



3 Focus the subject.

- Press the shutter button halfway, and the lens focusing ring will rotate to focus.
- ▶ The dot inside the AF point achieving focus flashes briefly in red. At the same time, the beeper will sound and the focus confirmation light <●> in the viewfinder will light up.
- ▶ If necessary, the built-in flash will be raised automatically.





4 Take the picture.

- Press the shutter button completely to take the picture.
- ▶ The captured image will be displayed for 2 sec. on the LCD monitor.
- After you finish shooting, push down the built-in flash with your fingers.

The <A+> mode makes the colors look more impressive in nature, outdoor, and sunset scenes. If the desired color tone is not obtained, use a Creative Zone mode and select a Picture Style other than <P> and shoot.

? FAQ

- **The focus confirmation light <●> blinks and focus is not achieved.**
 Aim the AF point over an area with good contrast, then press the shutter button halfway (p.35). If you are too close to the subject, move away and try again.
- **Multiple AF points flash simultaneously.**
 This indicates that focus is achieved at all those AF points. When the AF point covering the desired subject flashes, take the picture.
- **The beeper continues to beep softly. (The focus confirmation light <●> does not light up.)**
 It indicates that the camera is focusing continuously on a moving subject. (The focus confirmation light <●> does not light up.) You can take sharp pictures of a moving subject.
 Note that focus lock (p.51) will not work in this case.
- **Pressing the shutter button halfway does not focus the subject.**
 If the focus mode switch on the lens is set to <**MF**> (manual focus), set it to <**AF**> (autofocus).

- **The flash fired even though it was daylight.**
 For a backlit subject, the flash may fire to help lighten the subject's dark areas. There are two ways to disable the flash:
 - Set the flash setting to [⊗] (Flash off). If you change the shooting mode or set the power switch to <OFF>, the setting will revert back to [⚡A] (Auto flash) (p.71).
 - Set the Mode Dial to <⊗> (Flash Off) (p.53).
- **The flash fired and the picture came out extremely bright.**
 Move further from the subject and shoot. When shooting flash photography, if the subject is too close to the camera, the picture may come out extremely bright (overexposure).
- **In low light, the built-in flash fired a series of flashes.**
 Pressing the shutter button halfway may trigger the built-in flash to fire a series of flashes to assist autofocusing. This is called AF-assist beam. Its effective range is approx. 4 meters/13.1 feet.
- **When flash was used, the bottom part of the picture came out unnaturally dark.**
 The shadow of the lens barrel was captured in the picture because the subject was too close to the camera. Move further from the subject and shoot. If a hood is attached to the lens, remove it before taking the flash picture.

Full Auto Techniques (Scene Intelligent Auto)

Recomposing the Shot



Depending on the scene, position the subject toward the left or right to create a balanced background and good perspective.
In the <A+> mode, while you press the shutter button halfway to focus a still subject, the focus will be locked. You can then recompose the shot and press the shutter button completely to take the picture. This is called “focus lock”. Focus lock is also possible in other Basic Zone modes (except <><>).

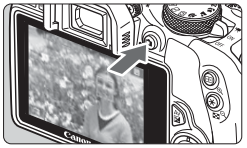
Shooting a Moving Subject



In the <A+> mode, if the subject moves (distance to camera changes) while or after you focus, AI Servo AF will take effect to focus the subject continuously. (The beeper will continue beeping softly.) As long as you keep aiming the AF point on the subject while pressing the shutter button halfway, the focusing will be continuous. When you want to take the picture, press the shutter button completely.

Live View Shooting

You can shoot while viewing the image on the LCD monitor. This is called “Live View shooting”. For details, see page 73.



1 Display the Live View image on the LCD monitor.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.



2 Focus the subject.

- Press the shutter button halfway to focus.
- ▶ When focus is achieved, the AF point will turn green and the beeper will sound.

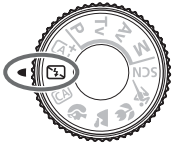


3 Take the picture.

- Press the shutter button completely.
- ▶ The picture will be taken and the captured image is displayed on the LCD monitor.
- ▶ After the image review ends, the camera will return to Live View shooting automatically.
- Press the <📷> button to end the Live View shooting.

Disabling Flash

The camera analyzes the scene and sets the optimum settings automatically. In places where flash photography is prohibited such as in a museum or an aquarium, use the <⚡> (Flash Off) mode.







Shooting Tips

- **Prevent camera shake if the numeric display in the viewfinder blinks.**
 Under low light when camera shake is prone to occur, the viewfinder's shutter speed display will blink. Hold the camera steady or use a tripod. When using a zoom lens, use the wide-angle end to reduce blur caused by camera shake even while handholding the camera.

- **Take portraits without flash.**
 In low-light conditions, tell the subject to keep still until the picture is taken. Any movement by the subject during shooting may result in the subject being blurred in the picture.

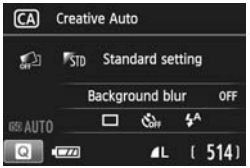
CA Creative Auto Shooting

In the <CA> mode, you can set the following functions before shooting: (1) Extra Effect Shot, (2) Ambience-based shots, (3) Background blur, (4) Drive/self-timer mode, and (5) Flash firing. The default settings are the same as the <A+> mode.

* CA stands for Creative Auto.

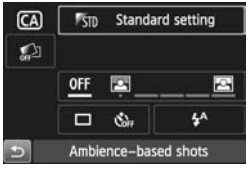


1 Set the Mode Dial to <CA>.



2 Press the <Q> button. (10)

▶ The Quick Control screen will appear.



3 Set the desired function.

- Press the <◆> cross keys to select the function.

▶ The selected function and Feature guide (p.43) will appear.

- Press <SET> to set the function.
- For the setting procedure and details on each function, see page 55.

4 Take the picture.

- Press the shutter button completely to take the picture.



Pressing the <Q> button enables you to set the following: If you set (1), (2) or (3) when the camera is set for Live View shooting, you can see the effect on the screen before you start shooting.

(1) Extra Effect Shot

- You can select any of the following effects before shooting: Creative filters, Picture Styles, and Ambience-based shots.
- Turn the <dial> dial to select [**: Enable**]. Tap on [↩] to return to the Quick Control screen. You can also press <SET> and make the selection.
- Turn the <dial> dial to select a shooting effect.
- When you take a picture, two images will be recorded. One with the effect applied and one without. Immediately after you take a picture, both images will be displayed together. The image without the effect is displayed on the left and the one with the effect will be on the right.

Registering your favorite shooting effects

- During the image review immediately after shooting and during playback, the image applied with the effect will have the <> icon. After you press the <Av> button and then the <INFO.> button, you can check which shooting effect was applied.
- You can register up to two shooting effects under [★**:Favorite effect**].
- When you select the registered [★**:Favorite effect**], you can shoot with that shooting effect applied. You can also overwrite the [★**:Favorite effect**].

If you are using an Eye-Fi card and have set it to erase images after their transfer, the image without the effect will not be displayed during the playback immediately after shooting.

(2) Ambience-based shots

- You can choose the ambience you want to convey in your images.
- Turn the <dial> dial to select the ambience. You can also select it from a list by pressing <SET>.

(3) Background blur



- If [**OFF**] is set, the degree of background blur will change depending on the brightness.
- If it is set to other than [**OFF**], you can adjust the background blur regardless of brightness.
- If you turn the <dial> dial to move the cursor to the right, the background will look sharper.
- Turning the <dial> dial to move the cursor to the left will blur the subject's background. Note that depending on the lens' maximum aperture (f/number), certain slider adjustments may not be selectable (indicated by •).
- If you use Live View shooting, you can see how the image is blurred in front of and behind the point of focus. While you turn the <dial> dial, [**Simulating blur**] will be displayed on the LCD monitor.
- If you want to blur the background, see "Shooting Portraits" on page 58.
- Depending on the lens and shooting conditions, the background may not look so blurred.
- This function cannot be set if you use flash. If <flash A> has been set and you set Background blur, <flash> will be set automatically.

- If [**Simulating blur**] is effective during Live View shooting, the image shown while <Exp.SIM> (p.76) is blinking may have more noise than the actual image being recorded or it may look dark.
- You cannot set both (1) Extra Effect Shot and (2) Ambience-based shots at the same time.
- You cannot set both (1) Extra Effect Shot and (3) Background blur at the same time.

(4) Drive/self-timer mode: Use the <dial> dial to make the selection. You can also select it from a list by pressing <SET>.

<□> **Single shooting**:
Shoot one image at a time.

<□ᵢ> **Continuous shooting**:
While you hold down the shutter button completely, shots will be taken continuously. You can shoot up to approx. 4 shots per second.

<ⁱ⁽ᵎ⁾> **Self-timer: 10sec./remote control**:
The picture is taken 10 seconds after you press the shutter button. A remote controller can also be used.

<⁽ᵎ⁾₂> **Self-timer: 2 sec.**:
The picture is taken 2 seconds after you press the shutter button.

<⁽ᵎ⁾C> **Self-timer: Continuous**:
Press the <▲> <▼> keys to set the number of multiple shots (2 to 10) to be taken with the self-timer. 10 seconds after you press the shutter button, the set number of multiple shots will be taken.

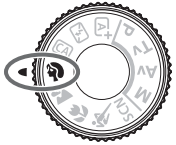
(5) Flash firing: Turn the <dial> dial to select the desired setting. You can also select it from a list by pressing <SET>.

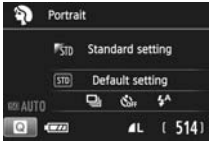
<ϟᴬ> **Auto flash** : The flash fires automatically when necessary.
<ϟ> **Flash on** : The flash fires at all times.
<⊗> **Flash off** : The flash is disabled.

- When using <⊗>, see "Disabling Flash" on page 53.
- If you have set Extra Effect Shot, <□ᵢ> <⁽ᵎ⁾C> cannot be set.
- If you have set Background blur, you cannot use flash.

Shooting Portraits

The <> (Portrait) mode blurs the background to make the human subject stand out. It also makes skin tones and hair look softer.







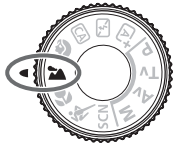
Shooting Tips

- **The further the distance between the subject and background, the better.**
 The further the distance between the subject and background, the more blurred the background will look. The subject will also stand out better against an uncluttered dark background.
- **Use a telephoto lens.**
 If you have a zoom lens, use the telephoto end to fill the frame with the subject from the waist up. Move in closer if necessary.
- **Focus the face.**
 Check that the AF point covering the face flashes. For close-ups of the face, focus on the eyes.

The default setting is <> (Continuous shooting). If you hold down the shutter button, you can shoot continuously to capture subtle changes in the subject's pose and facial expression (max. approx. 4 shots/sec.).

Shooting Landscapes

Use the <🏞> (Landscape) mode for wide scenery or to have everything in focus from near to far. For vivid blues and greens, and very sharp and crisp images.







Shooting Tips

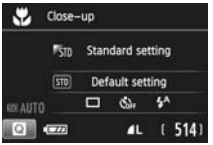
- **With a zoom lens, use the wide-angle end.**
 When using the wide-angle end of a zoom lens, objects near and far will be in focus better than at the telephoto end. It also adds breadth to landscapes.
- **Shooting night scenes.**
 The <🏞> mode is also good for night scenes because it disables the built-in flash. Use a tripod to prevent camera shake.

The flash will not fire even in backlit or low-light conditions.

Shooting Close-ups

When you want to shoot flowers or small things up close, use the <🌷> (Close-up) mode. To make small things appear much larger, use a macro lens (sold separately).





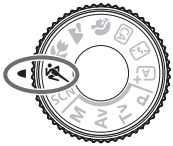


Shooting Tips

- **Use a simple background.**
 A simple background makes small objects such as flowers stand out better.
- **Move as close as possible to the subject.**
 Check the lens for its minimum focusing distance. Some lenses have indications such as <🌷**0.25m/0.8ft**> on them. The lens minimum focusing distance is measured from the <⊖> (focal plane) mark on the top of the camera to the subject. If you are too close to the subject, the focus confirmation light <●> will blink.
 If you use flash and the bottom of the picture looks unusually dark, move away from the subject.
- **With a zoom lens, use the telephoto end.**
 If you have a zoom lens, using the telephoto end will make the subject look larger.

Shooting Moving Subjects

Use the <🏃> (Sports) mode to shoot a moving subject, such as a running person or a moving vehicle.







Shooting Tips

- **Use a telephoto lens.**
 The use of a telephoto lens is recommended for shooting from a distance.

- **Use the center AF point to focus.**
 Aim the center AF point over the subject, then press the shutter button halfway to autofocus. During autofocusing, the beeper will continue beeping softly. If focus cannot be achieved, the focus confirmation light <●> will blink.
 The default setting is <🖳> (Continuous shooting). When you want to take the picture, press the shutter button completely. If you hold down the shutter button, you will be able to maintain autofocusing during continuous shooting of the subject's movement (max. approx. 4 shots per sec.).

Under low light when camera shake is prone to occur, the viewfinder's shutter speed display on the bottom left will blink. Hold the camera steady and shoot.

SCN: Special Scene Mode

The camera will automatically choose the appropriate settings when you select a shooting mode for your subject or scene.



1 Set the Mode Dial to <SCN>.



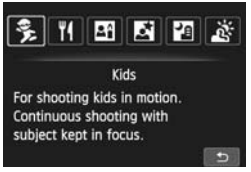
2 Press the <Q> button. (⏱10)

▶ The Quick Control screen will appear.



3 Select a shooting mode.

- Press the <✣> cross keys to select the desired shooting mode's icon.
- Turn the <◯> dial to select a shooting mode.



- You can also select the shooting mode icon and press <SET> to display a selection of shooting modes from which you can select one.

Available Shooting Modes in the <SCN> Mode

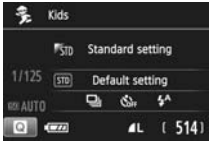
Shooting Mode		Page
	Kids	p.63
	Food	p.64
	Candlelight	p.65

Shooting Mode		Page
	Night Portrait	p.66
	Handheld Night Scene	p.67
	HDR Backlight Control	p.68

Shooting Children

When you want to continuously focus and shoot children running around, use <> (Kids). Skin tones will look healthy.







Shooting Tips

- **Use the center AF point to focus.**
 Aim the center AF point over the subject, then press the shutter button halfway to autofocus. During autofocusing, the beeper will continue beeping softly. If focus cannot be achieved, the focus confirmation light <●> will blink.

- **Shoot continuously.**
 The default setting is <> (Continuous shooting). When you want to take the picture, press the shutter button completely. If you hold down the shutter button, you will be able to maintain autofocusing during continuous shooting of the subject's changing facial expressions and movement (max. approx. 4 shots per sec.).

While the flash is recycling, "**buSY**" is displayed in the viewfinder, and a picture cannot be taken. Take the picture after this display turns off.

Shooting Food

When shooting food, use <🍴> (Food). The photo will look bright and vivid, making the food look delicious.







Shooting Tips

- **Change the color tone.**
 You can change [**Color tone**]. Food photos with a reddish tinge usually make the food look more delicious. To increase the food's reddish tinge, set it toward [**Warm tone**]. Set it toward [**Cool tone**] if it looks too red.
- **Avoid using flash.**
 If you use flash, the light may reflect off the dish or food and results in unnatural shadows. By default, <⚡> (Flash off) is set. Try to prevent camera shake when shooting in low-light conditions.

- Since this mode sets the color tone to make food look delicious, human subjects may be shot in an unsuitable skin tone.
- If you use flash, the [**Color tone**] setting will switch to the default setting.

Shooting Candlelight Portraits

When shooting a human subject in candlelight, use <> (Candlelight). The candlelight color tones will be retained in the photo.







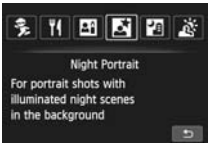
Shooting Tips

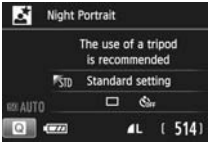
- **Use the center AF point to focus.**
 Aim the center AF point in the viewfinder over the subject, then shoot.
- **Prevent camera shake if the shutter speed in the viewfinder blinks.**
 Under low light when camera shake is prone to occur, the viewfinder's shutter speed display will blink. Hold the camera steady or use a tripod. When using a zoom lens, use the wide-angle end to reduce blur caused by camera shake even while handholding the camera.
- **Change the color tone.**
 You can change [**Color tone**]. To increase the candlelight's reddish tinge, set it toward [**Warm tone**]. Set it toward [**Cool tone**] if it looks too red.

- Live View shooting cannot be used.
- Flash shooting is not possible. In low light, the AF-assist beam may be emitted.

Shooting Night Portraits (With a Tripod)

To shoot people at night and obtain a natural-looking night scene in the background, use the <> (Night Portrait) mode. Using a tripod is recommended.







Shooting Tips

- **Use a wide-angle lens and a tripod.**
 When using a zoom lens, use the wide-angle end to obtain a wide night view. Also, use a tripod to prevent camera shake.
- **Check the subject's brightness.**
 Under low light, the built-in flash will fire automatically to obtain a good exposure of the subject.
 It is recommended to play back the image after the shooting to check the image brightness. If the subject looks dark, move nearer and shoot again.
- **Also shoot in another shooting modes.**
 Since camera shake is prone to occur with night shots, shooting also with <> and <> is recommended.

- Tell the subject to keep still even after the flash fires.
- If you use the self-timer together with flash, the self-timer lamp will light up briefly after the picture is taken.
- See the cautions on page 69.

Shooting Night Scenes (Handheld)

Using a tripod when shooting a night scene gives the best results. However, the <> (Handheld Night Scene) mode enables you to shoot night scenes even while handholding the camera. Four shots are taken continuously for each picture, and the resulting image with reduced camera shake is recorded.





Shooting Tips

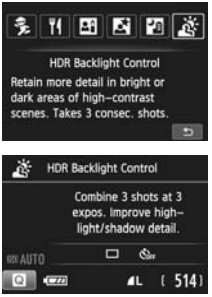
- **Hold the camera firmly.**
 While shooting, hold the camera firmly and steadily. In this mode, four shots are aligned and merged into a single image. However, if there is significant misalignment in any of the four shots due to camera shake, they may not align properly in the final image.

- **For shots of people, turn on the flash.**
 If you want to include people in the night scene shot, press the <Q> button to set <> (Flash on). To take a nice portrait, the first shot will use flash. Tell the subject not to move until all four continuous shots are taken.

See the cautions on page 69.

Shooting Backlit Scenes

When shooting a scene having both bright and dark areas, use the <HDR> (HDR Backlight Control) mode. When you take one picture in this mode, three continuous shots are taken at different exposures. This results in one image, with a wide tonal range, that has minimized the blocked-up shadows caused by backlighting.





Shooting Tips

- **Hold the camera firmly.**
 While shooting, hold the camera firmly and steadily. In this mode, three shots are aligned and merged into a single image. However, if there is significant misalignment in any of the three shots due to camera shake, they may not align properly in the final image.

- Flash shooting is not possible. In low light, the AF-assist beam may be emitted.
- See the cautions on page 69.

HDR stands for High Dynamic Range.

Cautions for both <> (Night Portrait) and <> (Handheld Night Scene)

- During Live View shooting, it may be difficult to focus dots of light such as in a night scene. In such a case, you should set the AF method to [**Quick mode**] and shoot. If it is still difficult to focus, set the lens' focus mode switch to <**MF**> and focus manually.

Cautions for <> (Handheld Night Scene)

- When shooting flash photography, if the subject is too close to the camera, the picture may come out extremely bright (overexposure).
- If you use flash to shoot a night scene with few lights, the shots may not align correctly. This can result in a blurry photo.
- If you use flash and the human subject is close to the background that is also illuminated by the flash, the shots may not align correctly. This can result in a blurry photo. Unnatural shadows and unsuitable colors may also appear.
- External flash coverage:
 - When using a Speedlite with automatic flash coverage setting, the zoom position will be fixed to the wide end, regardless of the lens' zoom position.
 - If you have to set the flash coverage manually, set it to the wide-angle end.

Cautions for <> (HDR Backlight Control)

- Note that the image may not be rendered with a smooth gradation and may look irregular or have significant noise.
- HDR Backlight Control may not be effective for excessively backlit scenes or extremely high-contrast scenes.

Cautions for both <> (Handheld Night Scene) and <> (HDR Backlight Control)

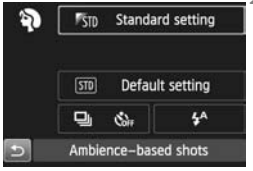
- Compared with other shooting modes, the shooting area will be smaller.
- RAW + L or RAW cannot be selected. If RAW + L or RAW has been set, L will be set.
- If you shoot a moving subject, the subject's movement will leave afterimages.
- The image alignment may not function properly with repetitive patterns (lattice, stripes, etc.), flat or single-tone images, or images significantly misaligned due to camera shake.
- Recording the image to the card will take longer than with normal shooting. During the processing of the images, "**BUSY**" will be displayed and you cannot take another picture until the processing is completed.
- If the shooting mode is set to <> or <>, direct printing is not possible.

Q Quick Control

In Basic Zone modes when the shooting function settings screen is displayed, you can press the <Q> button to display the Quick Control screen. The table on the next page shows the functions that can be set with the Quick Control screen in each Basic Zone mode.

1 Set the Mode Dial to a Basic Zone mode.

Example: Portrait mode



2 Press the <Q> button. (⏱10)

▶ The Quick Control screen will appear.



3 Set the functions.

- Press the <✣> cross keys to select a function. (This step is not necessary in the 📷 mode.)

▶ The selected function and Feature guide (p.43) will appear.

- Press the <◄> <►> keys or turn the <⚙> dial to change the setting.

In the <🍴> and <🏞> modes, you can set [**Color tone**]. To suit the light source, set it toward [**Warm tone**] to increase the reddish tinge. Set it toward [**Cool tone**] if the color tone looks too red.

Settable Functions in Basic Zone Modes

●: Default setting ○: User selectable ▭: Not selectable

Function								
Drive mode	□: Single shooting	●	●	●	○	●	●	○
	▭: Continuous shooting	○	○	○	●	○	○	●
Self-timer	(10 sec.)	○	○	○	○	○	○	○
	(2 sec.)	○	○	○	○	○	○	○
	(Continuous)	○	○	○	○	○	○	○
Flash firing	: Automatic firing	●		●	●		●	
	: Flash on (Fires at all times)	○		○	○		○	
	: Flash off	○	●	○	○	●	○	●
Ambience-based shots				○	○	○	○	○
Light/scene-based shots					○	○	○	○
Background blur (p.56)				○				
Color tone								
Extra Effect Shot (p.55)				○				

Function		SCN					
Drive mode	□: Single shooting	○	●	●	●	●	●
	▭: Continuous shooting	●	○	○	○	○	○
Self-timer	(10 sec.)	○	○	○	○	○	○
	(2 sec.)	○	○	○	○	○	○
	(Continuous)	○	○	○	○	○	○
Flash firing	: Automatic firing	●			●		
	: Flash on (Fires at all times)	○	○			○	
	: Flash off	○	●	●		●	●
Ambience-based shots		○	○	○	○	○	
Light/scene-based shots		○					
Background blur (p.56)							
Color tone			○	○			
Extra Effect Shot (p.55)							

* If you change the shooting mode or set the power switch to <OFF>, it will revert to the default settings (except the self-timer).



3

Shooting with the LCD Monitor (Live View Shooting)

You can shoot while viewing the picture on the camera's LCD monitor. This is called "Live View shooting".

If you handhold the camera and shoot while viewing the LCD monitor, camera shake can cause blurred images. Using a tripod is recommended.

Remote Live View Shooting
With EOS Utility (provided software, p.106) installed in your computer, you can connect the camera to the computer and shoot remotely while viewing the computer screen. For details, refer to the Software Instruction Manual (p.108) on the CD-ROM.

Shooting with the LCD Monitor



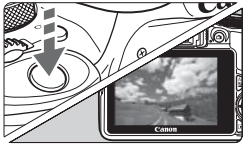
1 Display the Live View image.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor. In the <A+> mode, the scene icon for the scene detected by the camera is displayed on the upper left.
- By default, Continuous AF will take effect.
- The Live View image will closely reflect the brightness level of the actual image you capture.



2 Focus the subject.

- When you press the shutter button halfway, the camera will focus with the current AF method (p.77).

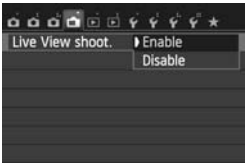


3 Take the picture.

- Press the shutter button completely.
- ▶ The picture will be taken and the captured image is displayed on the LCD monitor.
- ▶ After the image review ends, the camera will return to Live View shooting automatically.
- Press the <📷> button to exit the Live View shooting.

- The image's field of view is approx. 100% (with the image-recording quality set to JPEG ◢L).
- In Creative Zone modes, you can check the depth of field by pressing the depth-of-field preview button.
- During continuous shooting, the exposure set for the first shot will also be applied to subsequent shots.
- You can also tap the subject on the LCD monitor to focus (p.77-83) and shoot (p.84).
- You can also use a remote controller (sold separately) for Live View shooting.

Enabling Live View Shooting



Set [: **Live View shoot.**] to [**Enable**].

Number of Possible Shots with Live View Shooting

[Approx. number of shots]

Temperature	Shooting Conditions	
	No Flash	50% Flash Use
Room temperature (23°C / 73°F)	160	150
Low temperatures (0°C / 32°F)	150	140

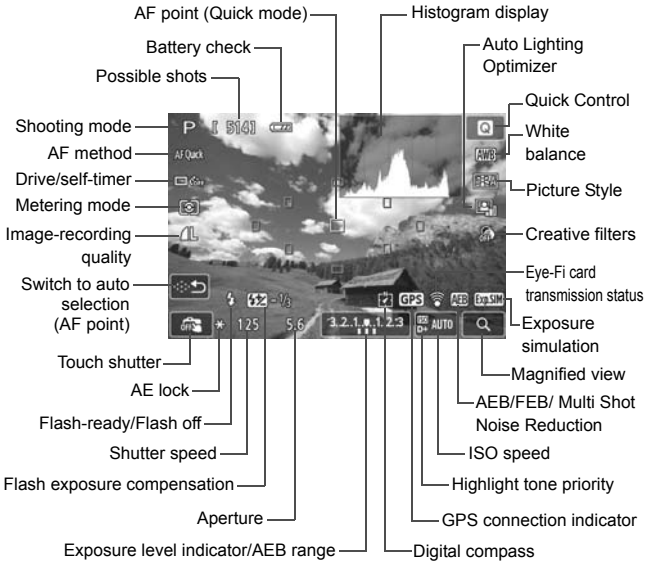
- The figures above are based on a fully-charged Battery Pack LP-E12 and CIPA (Camera & Imaging Products Association) testing standards.
- With a fully-charged Battery Pack LP-E12, continuous Live View shooting is possible for approx. 1 hr. 20 min. at room temperature (23°C / 73°F).

- In the <> mode, Live View shooting is not possible.
- In the <> and <> shooting modes, the shooting area will be smaller than with other shooting modes.
- During Live View shooting, do not point the lens toward the sun. The sun's heat can damage the camera's internal components.

- When flash is used, there will be two shutter sounds, but only one shot will be taken. Also, the time it takes to take the picture after you press the shutter button completely will be slightly longer than with viewfinder shooting.
- If the camera is not operated for a prolonged period, the power will turn off automatically after the time set in [**2: Auto power off**]. If [**2: Auto power off**] is set to [**Disable**], Live View shooting will end automatically after 30 min. (camera power remains on).
- With the stereo AV cable AVC-DC400ST (sold separately) or HDMI cable HTC-100 (sold separately), you can display the Live View image on a TV.

Information Display

- Each time you press the <INFO.> button, the information display will change.

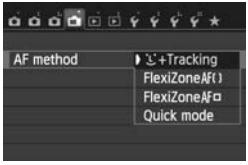


- When <Exp.SIM> is displayed in white, it indicates that the Live View image brightness is close to what the captured image will look like.
- If <Exp.SIM> is blinking, it indicates that the Live View image is displayed at a brightness that differs from the actual shooting result because of low- or bright-light conditions. However, the actual image recorded will reflect the exposure setting. Note that noise may be more noticeable than the actual image recorded.
- If you use the <CA> or <SCN> shooting mode, use flash, or set a bulb exposure, the <Exp.SIM> icon and histogram will be grayed out (for your reference). The histogram may not be properly displayed in low- or bright-light conditions.

Using AF to Focus (AF Method)

Selecting the AF Method

You can select an AF method to suit the shooting conditions and your subject. The following AF methods are provided: [**(face)+Tracking**], [**FlexiZone - Multi**] (p.79), [**FlexiZone - Single**] (p.81), and [**Quick mode**] (p.82).
If you want to achieve precise focus, set the lens focus mode switch to <**MF**>, magnify the image, and focus manually.



Select the AF method.

- Under the [] tab, select [**AF method**].
- Select the desired AF method, then press <SET>.
- While the Live View image is displayed, you can also press the <Q> button to select the AF method on the Quick Control screen.

(face)+Tracking: AF

The camera detects and focuses human faces. If a face moves, the AF point <[]> also moves to track the face.



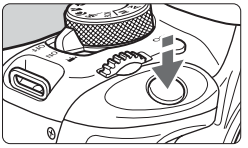
1 Display the Live View image.

- Press the <> button.
- ▶ The Live View image will appear on the LCD monitor.

2 Select an AF point.

- When a face is detected, the <[]> frame will appear over the face to be focused.
- If multiple faces are detected, <[]> will be displayed. Use <◀> <▶> to move the <[]> frame over the face you want to focus on.

- You can also tap the LCD monitor screen to select the face or subject. If the subject is not a face, <[]> will be displayed.
- If no faces can be detected, or if you tap the LCD monitor but do not select any face or subject, the camera will switch to [**FlexiZone - Multi**] with automatic selection (p.79).



3 Focus the subject.

- Press the shutter button halfway to focus.

▶ When focus is achieved, the AF point will turn green and the beeper will sound.

▶ If focus is not achieved, the AF point will turn orange.



4 Take the picture.

- Check the focus and exposure, then press the shutter button completely to take the picture (p.74).

- If the subject's face is significantly out of focus, face detection will not be possible. You can prevent this by setting [**Continuous AF**] to [**Enable**].
- An object other than a human face may be detected as a face.
- Face detection will not work if the face is very small or large in the picture, too bright or too dark, or partially hidden.
- The <[]> may cover only part of the face.

- If you press the <🗑> button, the AF point <[]> will appear at the center and you can use the <✣> cross keys to move the AF point.
- Since AF is not possible with a face detected near the edge of the picture, the <[]> will be grayed out. If you press the shutter button halfway, the subject will be focused in FlexiZone - Multi method with automatic selection.

FlexiZone - Multi: AF()

You can use up to 31 AF points for wide-area focusing (automatic selection). This wide area can also be divided into 9 zones for focusing (zone selection).



Area frame

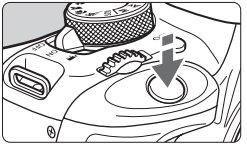
1 Display the Live View image.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.



2 Select the AF point. ☆

- Pressing the <🗑> button will toggle between automatic selection and zone selection. In Basic Zone modes, automatic selection is set automatically.
- Use the <✣> cross keys to select a zone. To return to the center zone, press the <🗑> button again.
- You can also tap the LCD monitor screen to select a zone. When a zone is selected, tap [()↩] on the screen to switch to automatic selection.



3 Focus the subject.

- Aim the AF point over the subject and press the shutter button halfway.
- ▶ When focus is achieved, the AF point will turn green and the beeper will sound.
- ▶ If focus is not achieved, the area frame will turn orange.



4 Take the picture.

- Check the focus and exposure, then press the shutter button completely to take the picture (p.74).

- When the camera does not focus the desired target subject with automatic AF point selection, switch the AF method to zone selection or [**FlexiZone - Single**], and refocus.
- Depending on the [**: Aspect ratio**] setting, the number of AF points will differ. At [**3:2**], there will be 31 AF points. At [**1:1**] and [**4:3**], there will be 25 AF points. And at [**16:9**], 21 AF points. Also, at [**16:9**], there will be only three zones.
- For movie shooting, there will be 21 AF points (or 25 AF points if [**640x480**] is set) and three zones (or 9 zones if [**640x480**] is set).

FlexiZone - Single: AF □

The camera focuses with a single AF point. This is effective when you want to focus a particular subject.


AF point

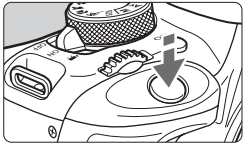
1 Display the Live View image.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.
- ▶ The AF point <□> will appear.
- During movie shooting, if [**Movie Servo AF**] is set to [**Enable**], the AF point will be displayed in a larger size.



2 Move the AF point.

- Press the <✣> cross keys to move the AF point to where you want to focus. (It cannot go to the edges of the picture.)
- To return the AF point to the center, press the <🗑> button.
- You can also tap the LCD monitor screen to move the AF point.



3 Focus the subject.

- Aim the AF point over the subject and press the shutter button halfway.
- ▶ When focus is achieved, the AF point will turn green and the beeper will sound.
- ▶ If focus is not achieved, the AF point will turn orange.



4 Take the picture.

- Check the focus and exposure, then press the shutter button completely to take the picture (p.74).

Quick Mode: AF Quick

The dedicated AF sensor is used to focus in One-Shot AF mode, using the same AF method as with viewfinder shooting.
Although you can focus the target subject quickly, **the Live View image will be interrupted momentarily during the AF operation.**
You can use nine AF points to focus (automatic selection). You can also select one AF point to focus and focus only the area covered by that AF point (manual selection).

AF point



1 Display the Live View image.

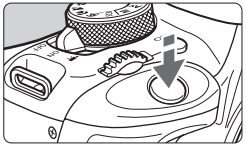
- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.
- The small boxes are the AF points.

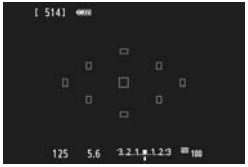




2 Select the AF point. ☆

- Pressing the <🗑> button will toggle between automatic selection and manual selection. In Basic Zone modes, automatic selection is set automatically.
- Use the <✣> cross keys to select an AF point. To return the AF point to the center, press the <🗑> button again.
- You can also tap the LCD monitor screen to select the AF point. During manual selection, tap [✣⮌] on the screen to switch to automatic selection.





3 Focus the subject.

- Aim the AF point over the subject and press the shutter button halfway.
- ▶ The Live View image will turn off, the reflex mirror will go back down, and AF will be executed. (No picture is taken.)
- ▶ When focus is achieved, the AF point that achieved focus will turn green and the Live View image will reappear.
- ▶ If focus is not achieved, the AF point will turn orange and blink.



4 Take the picture.

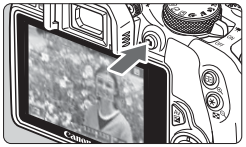
- Check the focus and exposure, then press the shutter button completely to take the picture (p.74).

- When [**Quick mode**] is set, [**Continuous AF**] cannot be set.
- The [**Quick mode**] cannot be set for movie shooting.

You cannot take a picture during autofocusing. Take the picture while the Live View image is displayed.

Shooting with the Touch Shutter

Just by tapping the LCD monitor screen, you can focus and take the picture automatically. This works in all shooting modes.



1 Display the Live View image.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.



2 Enable the touch shutter.

- Tap [OFF] on the screen's bottom left. Each time you tap the icon, it will toggle between [OFF] and [ON].
- [ON] (Touch shutter: Enable)
 You can focus and shoot by tapping the screen.
- [OFF] (Touch shutter: Disable)
 You can tap to select where you want to focus. Press the shutter button completely to take the picture.



3 Tap the screen to shoot.

- Tap the face or subject on the screen.
- ▶ At the point you tap, the camera will focus in the AF method that was set (p.77-83). When [**FlexiZone - Multi**] is set, it will switch to [**FlexiZone - Single**].
- ▶ When focus is achieved, the AF point turns green and the picture is taken automatically.
- If focus is not achieved, the AF point turns orange and the picture cannot be taken. Tap the face or subject on the screen again.

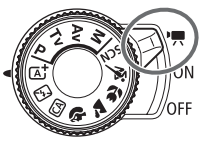
- Even if you set Drive/self-timer to <□>, the camera will still shoot in single shooting mode.
- The touch shutter does not work with the magnified view.
- When [**6: Shutter/AE lock button**] is set to [**1: AE lock/AF**] or [**3: AE/AF, no AE lock**] under [**4: Custom Functions (C.Fn)**], autofocusing does not take effect.

- You can also set the touch shutter with [**: Touch shutter**].
- To take a bulb exposure, tap the screen twice. The first tap on the screen will start the bulb exposure. Tapping it again will stop the exposure. Be careful not to shake the camera when tapping the screen.

Do not hold the camera in the same posture for long periods of times. Even if the camera does not feel too hot, prolonged contact with the same body part may cause skin redness, blistering or low-temperature contact burns. The use of a tripod is recommended for people with circulation problems or very sensitive skin, or when using the camera in very hot places.

4

Shooting Movies



Movie shooting is enabled by setting the power switch to <🎥>. The movie recording format will be MOV.

- For cards that can record movies, see page 3.

Full HD 1080

Full HD 1080 indicates compatibility with High-Definition featuring 1080 vertical pixels (scanning lines).

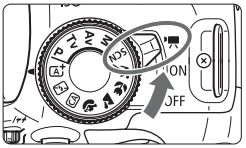
FULL HD 1080

Shooting Movies

Connecting the camera to a TV set is recommended to play back the movies shot.

Autoexposure Shooting

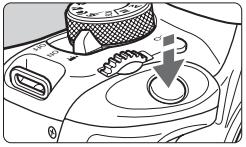
When the shooting mode is set to other than <**M**>, autoexposure control will take effect to suit the scene's current brightness.



1 Set the power switch to <🎥>.

▶ The reflex mirror will make a sound, then the image will appear on the LCD monitor.

2 Set any shooting mode except <M>.



3 Focus the subject.

- Before shooting a movie, focus with AF or manual focus (p.77-83).
- By default, [**Movie Servo AF: Enable**] is set so that the camera will always focus.

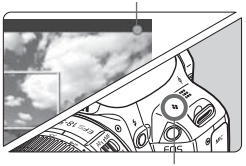


Recording movie

4 Shoot the movie.

- Press the <📷> button to start shooting a movie. To stop movie shooting, press <📷> again.

▶ While the movie is being shot, the "●" mark will be displayed on the upper right of the screen.



Microphone

Do not hold the camera in the same posture for long periods of times. Even if the camera does not feel too hot, prolonged contact with the same body part may cause skin redness, blistering or low-temperature contact burns. The use of a tripod is recommended for people with circulation problems or very sensitive skin, or when using the camera in very hot places.

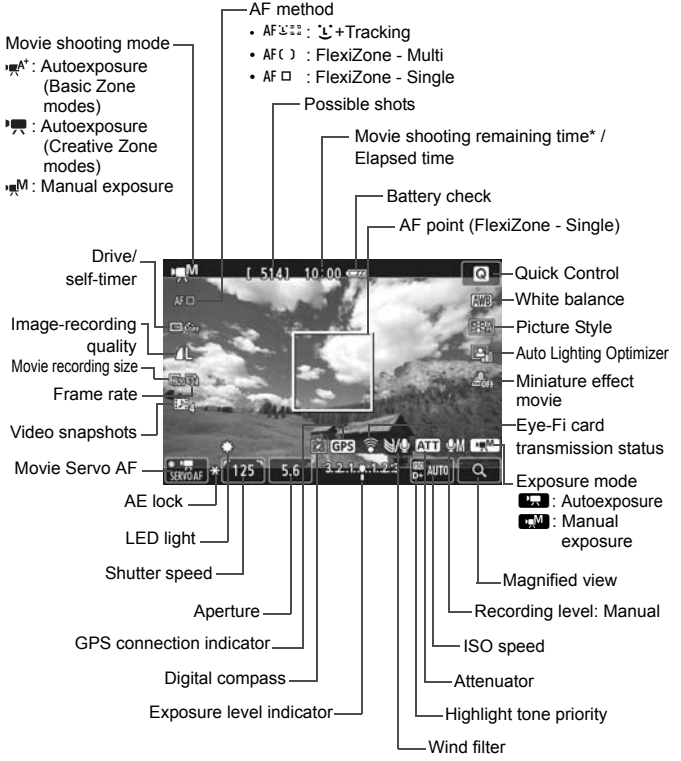
- In Basic Zone modes, the shooting result will be the same as with <A+>. Also, the scene icon for the scene detected by the camera is displayed on the upper left.
- In the <**Av**> and <**Tv**> shooting modes, the settings will be the same as in the <**P**> mode.
- Settable menu functions will differ between Basic Zone modes and Creative Zone modes.
- The ISO speed (100-6400), shutter speed, and aperture are set automatically.
- In Creative Zone modes, you can press the <✳> button to lock the exposure (AE lock). The exposure setting will be displayed for the number of seconds set with [**1: Metering timer**]. After applying AE lock during movie shooting, you can cancel it by pressing the <⊡> button. (AE lock setting is retained until you press the <⊡> button.)
- In Creative Zone modes, you can hold down the <Av⊠> button and turn the <◌> dial to set the exposure compensation.
- Pressing the shutter button halfway displays the shutter speed and ISO speed on the screen's bottom. This is the exposure setting for taking a still photo (p.90). The exposure setting for movie shooting is not displayed. Note that the exposure setting for movie shooting may differ from that for still photo shooting.
- If you shoot a movie with autoexposure, the shutter speed and aperture will not be recorded in the image information (Exif).

Using an EX-series Speedlite (Sold Separately) Equipped with an LED Light

With autoexposure (modes other than **M**) movie shooting, the camera will automatically turn on the Speedlite's LED light under low-light conditions. **For details, refer to the Speedlite's instruction manual.**

Information Display

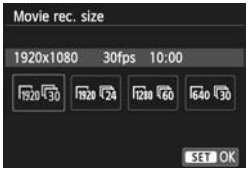
- Each time you press the <INFO.> button, the information display will change.



* Applies to a single movie clip.

When movie shooting starts, the movie shooting remaining time will change to the elapsed time.

MENU Setting the Movie Recording Size



The menu option [**2: Movie rec. size**] enables you to select the movie's image size [******x******] and frame rate [] (frames recorded per second). The (frame rate) switches automatically depending on the [**2: Video system**] setting.

- **Image Size**
 - [**1920x1080**] : Full High-Definition (Full HD) recording quality. The aspect ratio will be 16:9.
 - [**1280x720**] : High-Definition (HD) recording quality. The aspect ratio will be 16:9.
 - [**640x480**] : Standard-definition recording quality. The aspect ratio will be 4:3.

- **Frame Rate** (fps: frames per second)
 - / : For areas where the TV format is NTSC (North America, Japan, Korea, Mexico, etc.).
 - / : For areas where the TV format is PAL (Europe, Russia, China, Australia, etc.).
 - : Mainly for motion pictures.

Total Movie Recording Time and File Size Per Minute

Movie Recording Size		Total Recording Time (approx.)			File Size (approx.)
		4 GB Card	8 GB Card	16 GB Card	
[1920x1080]	30 25 24	11 min.	22 min.	44 min.	330 MB/min.
[1280x720]	60 50	11 min.	22 min.	44 min.	330 MB/min.
[640x480]	30 25	46 min.	1 hr. 32 min.	3 hr. 4 min.	82.5 MB/min.

- **Movie Files Exceeding 4 GB**
 Even if you shoot a movie exceeding 4 GB, you can keep shooting without interruption.
 During movie shooting, approx. 30 sec. before the movie reaches the 4 GB file size, the elapsed shooting time displayed in the movie shooting screen will start blinking. If you keep shooting until the movie file size exceeds 4 GB, a new movie file will be created automatically and the elapsed shooting time or time code will stop blinking.
 When you play back the movie, you will have to play each movie file individually. Movie files cannot play back consecutively automatically. After the movie playback ends, select the next movie to be played.
- **Movie Shooting Time Limit**
 The maximum recording time of one movie clip is 29 min. 59 sec. If the movie shooting time reaches 29 min. 59 sec., the movie shooting will stop automatically. You can start shooting a movie again by pressing the <●> button. (A new movie file starts being recorded.)

An increase of the camera's internal temperature may cause movie shooting to stop before the maximum recording time shown in the table above.

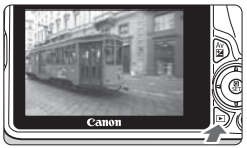
5

Image Playback

This chapter explains basic procedures to play back images and movies.

Images shot and saved with another device
The camera may not be able to properly display images captured with a different camera, edited with a computer, or that have had their file names changed.

▶ Image Playback



1 Play back the image.

- Press the <▶> button.
- ▶ The last captured image or last image played back will appear.



2 Select an image.

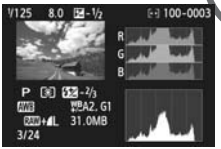
- To view images starting with the last image, press the <◀> key.
 To view images starting with the first (oldest) image, press the <►> key.
- Each time you press the <INFO.> button, the display format will change.



No information



With basic information



Histogram



Shooting information display

3 Exit the image playback.

- Press the <▶> button to exit the image playback and return to the shooting settings display.

To erase an image, press the <🗑> button, select [**Erase**] and press <SET>.

▶ Searching for Images Quickly

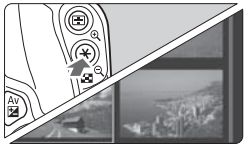
Display Multiple Images on One Screen (Index Display)

Search for images quickly with the index display showing 4, 9, 36, or 100 images on one screen.



1 Play back the image.

- When you press the <▶> button, the last image captured will be displayed.



2 Switch to the index display.

- Press the <▪ 🔍> button.
- ▶ The 4-image index display will appear. The selected image is highlighted in an orange frame.
- Pressing the <▪ 🔍> button will switch the display from 9 images to 36 images and then to 100 images.
- Pressing the <🔍> button will switch the display from 100 images to 36 images to 9 images to 4 images and then to 1 image.



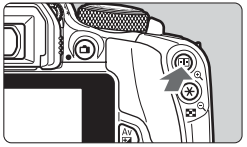


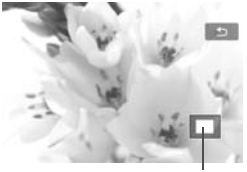
3 Select an image.

- Press the <✥> cross keys to move the orange frame to select an image.
- Turning the <◯> dial will display image(s) on the next or previous screen.
- Press <SET> in the index display to display the selected image as a single image.

🔍+/🔍- Magnified View

You can magnify a captured image by approx. 1.5x to 10x on the LCD monitor.

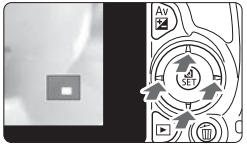


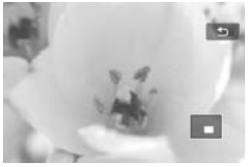


Magnified area position

1 Magnify the image.

- Press the <🔍+> button during image playback.
- ▶ The image will be magnified.
- If you hold down the <🔍+> button, the image will be magnified until it reaches the maximum magnification.
- Press the <⊞ 🔍-> button to reduce the magnification. If you hold down the button, the magnification will be reduced to the single-image display.





2 Scroll around the image.

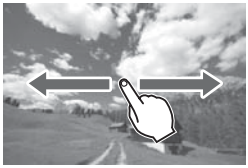
- Use the <✥> cross keys to scroll around the magnified image.
- To exit magnified view, press the <▶> button and the single-image display will reappear.

- In magnified view, you can turn the <☆> dial to view another image at the same magnification.
- The image cannot be magnified during the image review immediately after shooting.
- A movie cannot be magnified.

Playing Back with the Touch Screen

The LCD monitor is a touch-sensitive panel that you can touch with your fingers for playback operations. **Press the <▶> button to play back images.**

Browsing Images

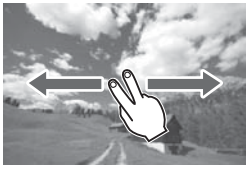




Swipe with one finger.

- With single-image display, touch the LCD monitor with **one finger**. You can browse to the next or previous image by swiping your finger to the left or right.
 Swipe to the left to see the next (newer) image or swipe to the right to see the previous (older) image.
- With index display, also touch the LCD monitor with **one finger**. You can browse to the next or previous screen by swiping your finger up or down.
 Swipe up to see the next (newer) images or swipe down to see the previous (older) images.
 When you select an image, the orange frame will appear. Tap the image again to display it as a single image.

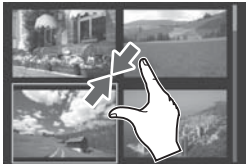
Jumping through Images (Jump Display)



Swipe with two fingers.

Touch the LCD monitor with **two fingers**. When you swipe two fingers to the left or right, you can jump through images with the method set in [**Image jump w/**] under the [▶**2**] tab.

Reducing Image (Index Display)



Pinch two fingers.

Touch the screen with two fingers spread apart, and pinch your fingers together on the screen.

- Each time you pinch your fingers, the single-image display will change to the index display.
- When you select an image, the orange frame will appear. Tap the image again to display it as a single image.

Magnifying Image



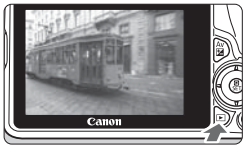
Spread two fingers apart.

Touch the screen with two fingers together, then spread your fingers apart on the screen.

- As you spread your fingers, the image will be magnified.
- The image can be magnified up to 10x.
- You can scroll around the image by dragging your finger.
- To reduce the image, pinch your fingers together on the screen.
- Tapping the [↩] icon will return to the single-image display.

Touch screen operations on the camera's LCD monitor are also possible while playing back images on a TV set connected to your camera.

Playing Movies



1 Play back the image.

- Press the <▶> button to display an image.



2 Select a movie.

- Press the <◀> <▶> keys to select a movie.
- In the single-image display, the <🎬> icon displayed on the upper left of the screen indicates a movie. If the movie is a video snapshot, [📷] will be displayed.
- In the index display, perforations at the left edge of a thumbnail indicate a movie. **As movies cannot be played from the index display, press <SET> to switch to the single-image display.**



3 In the single-image display, press <▲>.

▶ The movie playback panel will appear at the bottom of the screen.

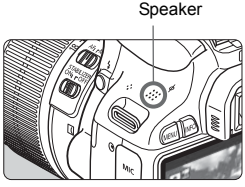


4 Play back the movie.

- Select [▶] (Play), then press <SET>.

▶ The movie will start playing.

- You can pause the movie playback by pressing <SET>.
- You can adjust the sound volume by turning the <⚙> dial even during movie playback.
- For more details on the playback procedure, see the next page.



Movie Playback Panel

Operation	Playback Description
▶ Play	Pressing <SET> toggles between play and stop.
Slow motion	Adjust the slow motion speed by pressing the <◀> <▶> keys. The slow-motion speed is indicated at the upper right of the screen.
First frame	Displays the movie's first frame.
Previous frame	Each time you press <SET>, the previous frame is displayed. If you hold down <SET>, it will rewind the movie.
Next frame	Each time you press <SET>, the movie will play frame-by-frame. If you hold down <SET>, it will fast forward the movie.
Last frame	Displays the movie's last frame.
Background music*	Plays back a movie with the selected background music.
Edit	Displays the editing screen.
	Playback position
mm' ss"	Playback time (minutes:seconds)
Volume	You can adjust the built-in speaker's (p.99) volume by turning the <dial> dial.
MENU ↩	Pressing the <MENU> button returns to the single-image display.

* When background music is set, the movie's sound will not be played.

Playback with the Touch Screen



Tap [▶] at the center of the screen.

- ▶ The movie will start playing.
- To display the movie playback panel, tap [] or [] on the upper left of the screen.
- If you tap the screen during movie playback, the movie pauses and the movie playback panel will appear.

- With a fully-charged Battery Pack LP-E12, the continuous playback time at room temperature (23°C/73°F) will be as follows: approx. 2 hr. 30 min.
- If you connect the camera to a TV set to play a movie, adjust the sound volume with the TV set. (Turning the <dial> dial will not change the sound volume.)
- If you took a still photo while you shot the movie, the still photo will be displayed for approx. 1 sec. during the movie playback.

6

Viewing the CD-ROM Instruction Manuals / Downloading Images to Your Computer

This chapter explains how to install the Camera Instruction Manual (on the CD-ROM provided) to your computer and download images from the camera to your computer, gives an overview of the software in the EOS DIGITAL Solution Disk (CD-ROM), and explains how to install the software on your computer. It also explains how to view the PDF files on the Software Instruction Manual CD-ROM.



Camera Instruction Manual



EOS DIGITAL Solution Disk
(Software)



Software Instruction Manual

Viewing the Camera Instruction Manual CD-ROM



The Camera Instruction Manual CD-ROM contains the following electronic manuals (PDF):

- **Camera Instruction Manual**
 Explains all the camera functions and procedures, including basic content.
- **Quick Reference Guide**
 Explains basic camera functions settings and basic shooting and playback procedures.

Viewing the Camera Instruction Manual on the CD-ROM

To view the instruction manuals (PDF files), Adobe Reader 6.0 or higher must be installed in your computer. Adobe Reader can be downloaded free from the Internet. After installing Adobe Reader, follow the procedure below.

1 Insert the "CAMERA INSTRUCTION MANUAL" CD-ROM into your computer.

2 Double-click the CD-ROM icon.



- For Windows, the icon is displayed in [**(My) Computer**].
- For Macintosh, the icon is displayed on the desktop.
- The icon displayed will differ depending on your computer's operating system.

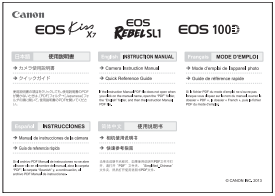


3 Double-click the START file.

- ▶ The screen shown in step 4 will appear.
- The icon displayed will differ depending on your computer's operating system.

4 Click on the manual you want to view.

- Click on the name of the manual under your respective language.



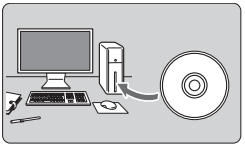
- ▶ The instruction manual in your language will be displayed.

- You can save the PDF file to your computer.
- All the instruction manuals (PDF files) have page links to make it quick to find the desired page. Click on a page number in the Table of Contents or Index and that page will appear.
- To learn how to use Adobe Reader, refer to Adobe Reader's Help section.

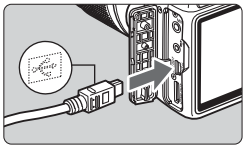
Downloading Images to a Computer

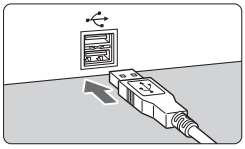
You can use the provided software to download the images in the camera to your computer. There are two ways to do this.

Downloading by Connecting the Camera to the Computer



1 Install the software (p.107)**.**





2 Use the provided interface cable to connect the camera to your computer.

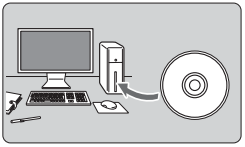
- Use the interface cable provided with the camera.
- Connect the cable to the camera's <**DIGITAL**> terminal with the cable plug's <⇠> icon facing the front of the camera.
- Connect the cord's plug to the computer's USB terminal.

3 Use EOS Utility to download the images.

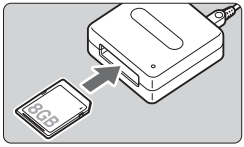
- For details, refer to the Software Instruction Manual on the CD-ROM (p.108).

Downloading Images with a Card Reader

You can also use a card reader to download images to your computer.



1 Install the software (p.107)**.**



2 Insert the card into the card reader.

3 Use Canon software to download the images.

- ▶ **Use Digital Photo Professional.**
- ▶ **Use ImageBrowser EX.**
- For details, refer to the Software Instruction Manual on the CD-ROM (p.108).

When downloading images from the camera to your computer using a card reader without using Canon software, copy the DCIM folder on the card to your computer.

Software Overview



EOS DIGITAL Solution Disk

This disk contains various software for EOS DIGITAL cameras.

EOS Utility

With the camera connected to a computer, EOS Utility enables you to transfer still photos and movies shot with the camera to the computer. You can also use this software to set various camera settings and shoot remotely with the computer connected to the camera. Also, you can copy background music tracks, such as EOS Sample Music*, to the card.

* You can use the background music as the soundtrack for a video snapshot album, movie, or slide show played on your camera.

Digital Photo Professional

This software is recommended for users who mainly shoot RAW images. You can quickly view, edit, process and print RAW images. You can also edit JPEG images while retaining the original images.

ImageBrowser EX

This software is recommended for users who mainly shoot JPEG images. You can easily view and play photos, movies, and video snapshot albums and also print JPEG images. Add-on features such as EOS Video Snapshot Task can also be downloaded from the Internet.

Note that the software ZoomBrowser EX/ImageBrowser provided with previous cameras does not support still photos and movie files shot with this camera (it is not compatible). Use ImageBrowser EX provided with this camera.

Picture Style Editor

You can edit Picture Styles and create and save original Picture Style files. This software is aimed at advanced users who are experienced in processing images.

Installing the Software

- **Do not connect the camera to your computer before you install the software. The software will not be installed correctly.**
- Even if your computer already has ImageBrowser EX installed, install ImageBrowser EX included on the CD-ROM that came with this camera. It is the latest version with features optimized for your camera. You can also use the auto update feature to add the latest functions.
- Even for software other than ImageBrowser EX, if a previous version is installed, update it by following the steps below to install the software that came with the camera. (The newer version will overwrite the previous version.)

1 Insert EOS DIGITAL Solution Disk (CD-ROM).

- For Macintosh, double-click to open the CD-ROM icon displayed on the desktop, then double-click on [**Canon EOS Digital Installer**].
- When a screen to select where you live or language appears, follow the on-screen instructions.

2 Click [Easy Installation] and follow the on-screen instructions to install.

- For Macintosh, click [**Install**].
- If an install screen for “Microsoft Silverlight” is displayed during installation, install “Microsoft Silverlight”.

3 Click [Restart] and remove the CD-ROM after the computer restarts.

- When the computer has restarted, the installation is complete.

Software Instruction Manual



Contains the Software Instruction Manuals.

Copying and Viewing the Software Instruction Manual PDFs

1 Insert the [Software INSTRUCTION MANUAL] CD-ROM into your computer.

2 Double-click the CD-ROM icon.

- For Windows, the icon is displayed in [**(My) Computer**].
- For Macintosh, the icon is displayed on the desktop.

3 Copy the [English] folder to your computer.

- Instruction Manual PDFs with the names below are copied.

	Windows	Macintosh
EOS Utility	EUx.xW_E_xx	EUx.xM_E_xx
Digital Photo Professional	DPPx.xW_E_xx	DPPx.xM_E_xx
ImageBrowser EX	IBXx.x_E_xx	
Picture Style Editor	PSEx.xW_E_xx	PSEx.xM_E_xx

4 Double-click the copied PDF file.

- Adobe Reader (most recent version recommended) must be installed on your computer.
- Adobe Reader can be downloaded free from the Internet.

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About MPEG-4 Licensing

"This product is licensed under AT&T patents for the MPEG-4 standard and may be used for encoding MPEG-4 compliant video and/or decoding MPEG-4 compliant video that was encoded only (1) for a personal and non-commercial purpose or (2) by a video provider licensed under the AT&T patents to provide MPEG-4 compliant video. No license is granted or implied for any other use for MPEG-4 standard."

* Notice displayed in English as required.

Use of genuine Canon accessories is recommended

This product is designed to achieve excellent performance when used with genuine Canon accessories.

Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

Safety Warnings

Follow these safeguards and use the equipment properly to prevent injury, death, and material damage.

Preventing Serious Injury or Death

- To prevent fire, excessive heat, chemical leakage, and explosions, follow the safeguards below:
 - Do not use any batteries, power sources, and accessories not specified in this booklet. Do not use any home-made or modified batteries.
 - Do not short-circuit, disassemble, or modify the battery pack or back-up battery. Do not apply heat or apply solder to the battery pack or back-up battery. Do not expose the battery pack or back-up battery to fire or water. And do not subject the battery pack or back-up battery to strong physical shock.
 - Do not install the battery pack or back-up battery in reversed polarity (+ –). Do not mix new and old or different types of batteries.
 - Do not recharge the battery pack outside the allowable ambient temperature range of 0°C - 40°C (32°F - 104°F). Also, do not exceed the recharging time.
 - Do not insert any foreign metallic objects into the electrical contacts of the camera, accessories, connecting cables, etc.
- Keep the back-up battery away from children. If a child swallows the battery, consult a physician immediately. (Battery chemicals may harm the stomach and intestines.)
- When disposing of a battery pack or back-up battery, insulate the electrical contacts with tape to prevent contact with other metallic objects or batteries. This is to prevent fire or an explosion.
- If excessive heat, smoke, or fumes are emitted during battery pack recharging, immediately unplug the battery charger from the power outlet to stop the recharging and prevent a fire.
- If the battery pack or back-up battery leaks, changes color, deforms, or emits smoke or fumes, remove it immediately. Be careful not to get burned in the process.
- Prevent any battery leakage from contacting your eyes, skin, and clothing. It can cause blindness or skin problems. If the battery leakage contacts your eyes, skin, or clothing, flush the affected area with lots of clean water without rubbing it. See a physician immediately.
- During the recharging, keep the equipment away from the reach of children. The cord can accidentally choke the child or give an electrical shock.
- Do not leave any cords near a heat source. It can deform the cord or melt the insulation and cause a fire or electrical shock.
- Do not hold the camera in the same posture for long periods of times. Even if the camera does not feel too hot, prolonged contact with the same body part may cause skin redness, blistering or low-temperature contact burns. The use of a tripod is recommended for people with circulation problems or very sensitive skin, or when using the camera in very hot places.
- Do not fire the flash at someone driving a car. It may cause an accident.
- Do not fire the flash near a person’s eyes. It may impair the person’s vision. When using flash to photograph an infant, keep at least 1 meter/3.3 feet away.

- Before storing the camera or accessory when not in use, remove the battery pack and disconnect the power plug. This is to prevent electrical shock, heat generation, and fire.
- Do not use the equipment where there is flammable gas. This is to prevent an explosion or fire.
- If you drop the equipment and the casing breaks open to expose the internal parts, do not touch the internal parts due to the possibility of electrical shock.
- Do not disassemble or modify the equipment. High-voltage internal parts can cause electrical shock.
- Do not look at the sun or an extremely bright light source through the camera or lens. Doing so may damage your vision.
- Keep the camera from the reach of small children. The neck strap can accidentally choke the child.
- Do not store the equipment in dusty or humid places. This is to prevent fire and electrical shock.
- Before using the camera inside an airplane or hospital, check if it is allowed. Electromagnetic waves emitted by the camera may interfere with the plane's instruments or the hospital's medical equipment.
- To prevent fire and electrical shock, follow the safeguards below:
 - Always insert the power plug all the way in.
 - Do not handle a power plug with wet hands.
 - When unplugging a power plug, grasp and pull the plug instead of the cord.
 - Do not scratch, cut, or excessively bend the cord or put a heavy object on the cord. Also do not twist or tie the cords.
 - Do not connect too many power plugs to the same power outlet.
 - Do not use a cord whose insulation has been damaged.
- Occasionally unplug the power plug and use a dry cloth to clean off the dust around the power outlet. If the surrounding is dusty, humid, or oily, the dust on the power outlet may become moist and short-circuit the outlet to cause a fire.

Preventing Injury or Equipment Damage

- Do not leave equipment inside a car under the hot sun or near a heat source. The equipment may become hot and cause skin burns.
- Do not carry the camera around while it is attached to a tripod. Doing so may cause injury. Also make sure the tripod is sturdy enough to support the camera and lens.
- Do not leave a lens or lens-attached camera under the sun without the lens cap attached. Otherwise, the lens may concentrate the sun's rays and cause a fire.
- Do not cover or wrap the battery-recharging apparatus with a cloth. Doing so may trap heat within and cause the casing to deform or catch fire.
- If you drop the camera in water or if water or metal fragments enter inside the camera, promptly remove the battery pack and back-up battery. This is to prevent fire and electrical shock.
- Do not use or leave the battery pack or back-up battery in a hot environment. Doing so may cause battery leakage or a shorter battery life. The battery pack or back-up battery can also become hot and cause skin burns.
- Do not use paint thinner, benzene, or other organic solvents to clean the equipment. Doing so may cause fire or a health hazard.

If the product does not work properly or requires repair, contact your dealer or your nearest Canon Service Center.

Digital Camera Model DS126441 Systems

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A. Inc.
One Canon Plaza, Lake Success, NY 11042, U.S.A.
Tel No. (516)328-5600

This Class B digital apparatus complies with Canadian ICES-003.



When connecting to and using a household power outlet, use only AC Adapter Kit ACK-E15 (rated input: 100-240 V AC 50/60 Hz, rated output: 7.4 V DC). Using anything else can cause fire, overheating, or electrical shock.

IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THESE INSTRUCTIONS** — This manual contains important safety and operating instructions for Battery Charger LC-E12 & LC-E12E.
2. Before using the charger, read all instructions and cautionary remarks on (1) the charger, (2) the battery pack, and (3) the product using the battery pack.
3. **CAUTION** — To reduce risk of injury, charge only the Battery Pack LP-E8. Other types of batteries may burst, causing personal injury and other damage.
4. Do not expose the charger to rain or snow.
5. Use of an attachment not recommended or sold by Canon may result in fire, electric shock, or personal injury.
6. To reduce risk of damage to electric plug and cord, pull by plug rather than by cord when disconnecting charger.
7. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
8. Do not operate the charger with damaged cord or plug - replace them immediately.
9. Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
10. Do not disassemble the charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
11. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.

MAINTENANCE INSTRUCTION

Unless otherwise stated in this manual, there are no user serviceable parts inside. Refer servicing to qualified serviceman.



USA and Canada only:
The Lithium ion/polymer battery that powers the product is recyclable. Please call 1-800-8-BATTERY for information on how to recycle this battery.

For CA, USA only
Included lithium battery contains Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION.

MEMO

Canon

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http://www.usa.canon.com/eos
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1-800-OK-CANON

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The lenses and accessories mentioned in this Instruction Manual are current as of January 2013. For information on the camera's compatibility with any lenses and accessories introduced after this date, contact any Canon Service Center.

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